ENXDVR-4C

Digital Surveillance in a Box

4 Channel Digital Video Recorder

And 4 CCD Security Cameras with Night Vision

User's Manual

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Packing List

Check the package contents and make sure all the components listed below are present. If in case there is/are missing part/s, do not return the package to the store, contact our tech support, we will be more than happy to assist you**.**

- 1 x 4-Channel Surveillance DVR (No Hard Drive in this model)
- 4 x Encore CCD All Weather and lightning proof cameras
- 4 x BALUN adapter
- 1 x Power adapter
- 1 x AC power cord
- 1 x USB Mouse
- 1 x IR Remote Control
- 1 x IR Receiver Extension Cable (for Remote Control)
- 2 x AAA Batteries for Remote Control (Optional)
- 1 x Quick Installation Guide
- 1 x Utility CD (includes user manual and software)

Caution

- Make sure to unplug the power adapter of the Encore 4-Channel Surveillance DVR before opening or hooking up any components
- Secure all cables and connectors before powering up the DVR
- Never leave loose parts or any foreign objects inside the DVR unit
- Do not open or install any internal components in a dusty and wet or extremely humid environment.
- Operate the Encore 4-Channel Surveillance DVR in a well ventilated areas to avoid overheating
- **Do not block the air vents located on top of the housing**
- Do not over expose the Surveillance DVR unit to a direct sunlight
- If you are unsure or in doubt of anything about running cables and connections during installation and upgrades, please contact a licensed technician
- No end user-serviceable parts inside except for the hard disk drive and the PAL/NTSC mechanical switch. Extra care must be followed to avoid electrical shock or permanent damage to the DVR.

Chapter

1

Overview

1.1 Introduction

Encore's ENXDVR-4C Surveillance in a Box is a compact 4-channel surveillance DVR designed for home and small business use. It is easy to install. With its small compact size, it's a space saver as well.

The Encore's Surveillance in a Box provides an intuitive onscreen menu to manipulate the DVR operations according to your likes and needs, it can be set to capture exactly what is most important to you and how it should capture, like motion detection. It stays idle until motion is detected and it start recording for a specific amount of time. This unique application gives you peace of mind knowing that you have the protection to places that are most important to you.

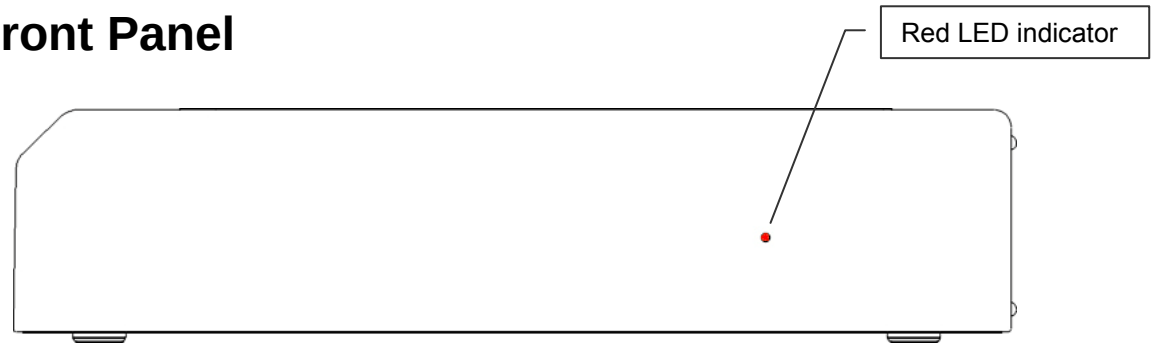
The Mini-DVR offers a number of technical advantages. Video captures from up to four places is stored in a Motion JPEG format, a universal format readable not only on your DVR but also to almost any computer in the world. The ability to support one internal 2.5" SATA hard drive means that the system will run for days or weeks before running out of space or needing to re-write over the oldest video scenes.

ENXDVR-4C Encore's Surveillance DVR is fully equipped with the following:

- Four channel RJ45 input. Four high-quality all weather and lightning proof Encore CCD cameras included in the package, these cameras are equipped with 24 night vision LED's which make recording in the dark a daylight-like video quality.
- Dual compressions. MJPEG for video recording coupled with MPEG4 for network streaming. With these protocols there will be no freezing and limitations on what computer or operating system to use, most video player utility can play your recorded videos and with MPEG4 your network would not clogged your bandwidth that causes network hang-ups, etc.
- Compact Size, easy to hide to almost anywhere you like.
- Duplex operation with Half-D1 resolution recording
- Supports any brand of a 2.5" SATA hard drive of up to 1TB capacity for more video capturing
- Onscreen menu changeable with mouse and remote control. Easy and simple even for novice users
- Displays, monitors, playbacks, backup and records videos. Flexibility, you can playback specific video file or you can go by time and date stamped.

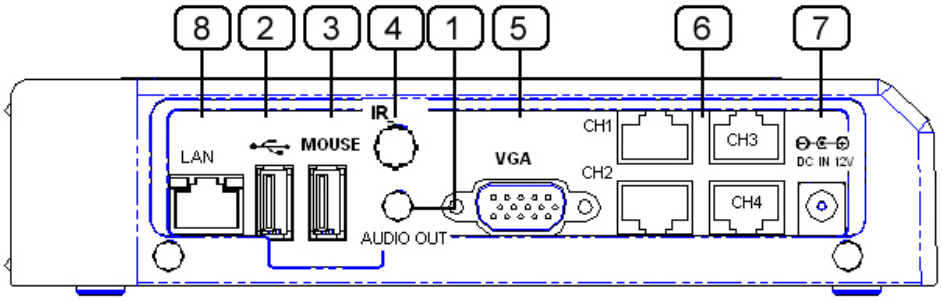
- Motion detection with adjustable sensitivity area. You can select which areas to be monitored and captured when motion is detected. I can also be set to record on specific recording and duration time.
- Authentication management for easy users' management. Create a backup admin user in case default admin is deleted by accident, or create a regular user with limited access rights to just monitoring job only and many more.
- Easy backup to USB flash drive device, select only the video capture you think is vital and save it in the USB flash drive, stick it in your computer's USB port and playback for review or save to the hard drive for backup.
- Software upgradeable using USB pen drive. Software or Firmware can be easily updated using a flash drive.
- PC Player for Data Viewer on PC. Remote login or view your cameras even you are offsite, whether you are in the office or somewhere in Europe and want to view, change settings or playback remotely, not a problem.

1.2 Front Panel



LED Color	Function
• Red light	Indicates the system is turned on
• Red light & Blinking	Indicates the hard drive is in use

1.3 Rear Panel



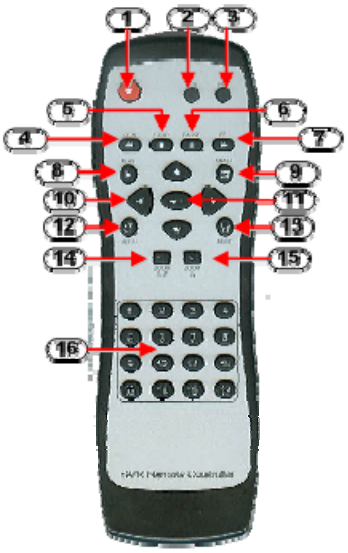
No.	Port Type	Function
1	Audio_out	For Audio output (not all model)
2	USB	For USB flash drive backup and software upgrade only
3	USB	For mouse use only (attach before turning on the system)
4	IR Extender	For the remote control infrared cable extension
5	VGA	For video output
6	CH1~CH4	For camera Video inputs Channel 1 to Channel 4
7	Power	For DC12V power input
8	LAN	For RJ45 LAN network connection

1.4 BALUN Adapter (Balance-Unbalance)

Balun provides connection to the RJ45 Video-In connector using UTP or STP cable to a regular camera BNC connector using COAX cable. Picture below shows a simple connection diagram for BALUN and components.

The Network cable shown above connects to the Video-In RJ45 port Channel 1 to Channel 4. Microphone requires special adapter RCA (female) to Microphone connector. Microphone only works on CH1 port.

1.5 Remote Control



No	Button / Name	Function in DVR Mode
1	REC	Start or stop recording / backup.
2	● DVR	Switch to DVR mode
3	● PTZ	Not Available in ENXDVR-4C
4	◀◀ REW	Rewind through video
5	■ STOP	Stop playback or backup
6	II PAUSE	Pause recording of playback
7	▶▶ FF	Fast forward through video
8	▶ PLAY	Start video playback
9	MENU	Enter a menu or exit
10	▲(UP) ▼(DOWN) ◀(LEFT) ▶(RIGHT)	Move through lists or change the settings of choices
11	↵ (Enter/Select)	Change and confirm values
12	↺ AUTO	Start automatic screen view rotation
13	MODE	Changes to split-screen mode
14	- ZOOM OUT	Not available in DVR mode
15	+ ZOOM IN	Not available in DVR mode
16	1,2,----16 (Channels)	Selects the channel to view in full screen

NOTE 1- Auto pan and line scan may be switched, depending on the camera's internal setting.

Chapter

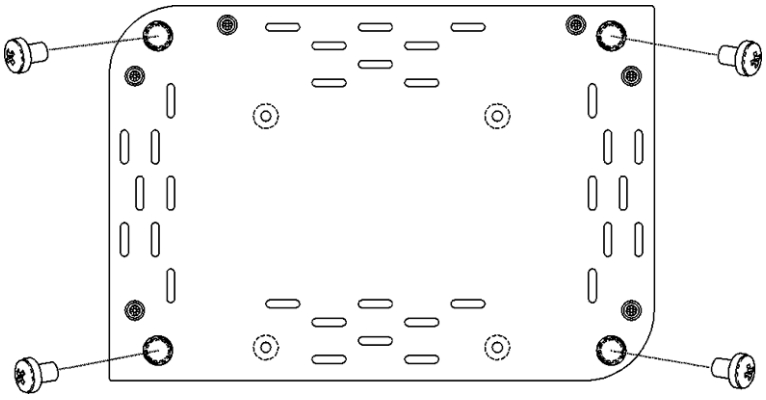
2

Hardware Setup

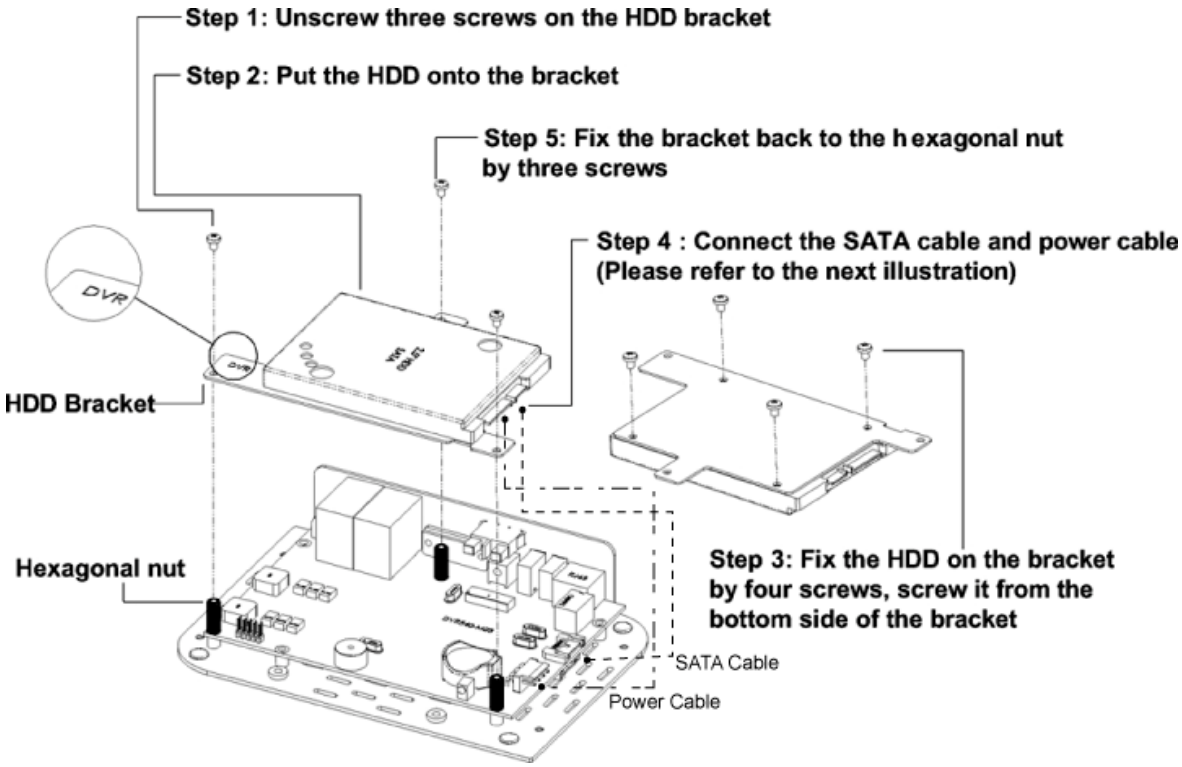
WARNING Make sure power cable is unplugged from the unit before starting!

2.1 Internal Hard Disk Installation

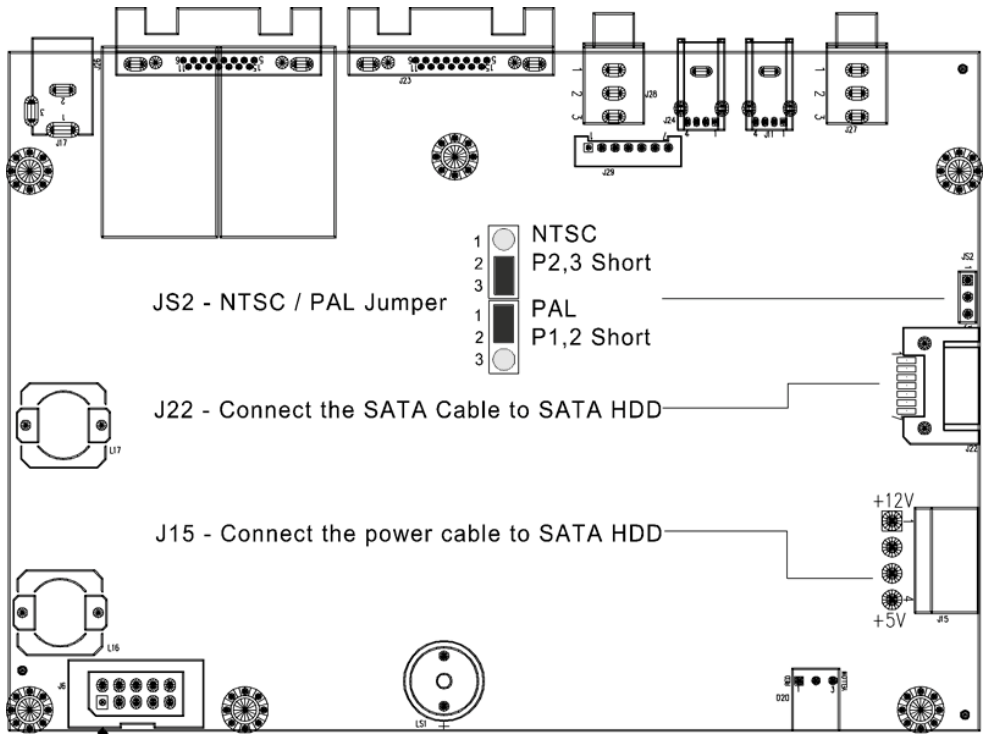
Step 1 Remove the top housing. Unscrew four screws on the bottom side of DVR to remove the chassis's top housing



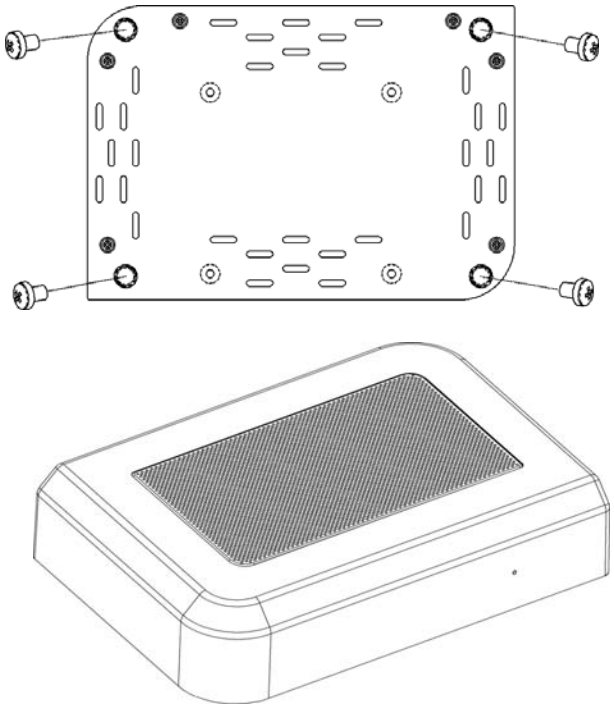
Step 2 Fix the HDD and Cables


Step 1: Unscrew three screws on the HDD bracket
Step 2: Put the HDD onto the bracket
Step 5: Fix the bracket back to the hexagonal nut by three screws
Step 4 : Connect the SATA cable and power cable (Please refer to the next illustration)
HDD Bracket
Hexagonal nut
Step 3: Fix the HDD on the bracket by four screws, screw it from the bottom side of the bracket
SATA Cable
Power Cable

Step 3 Connect the SATA cable and power cable to the main board.



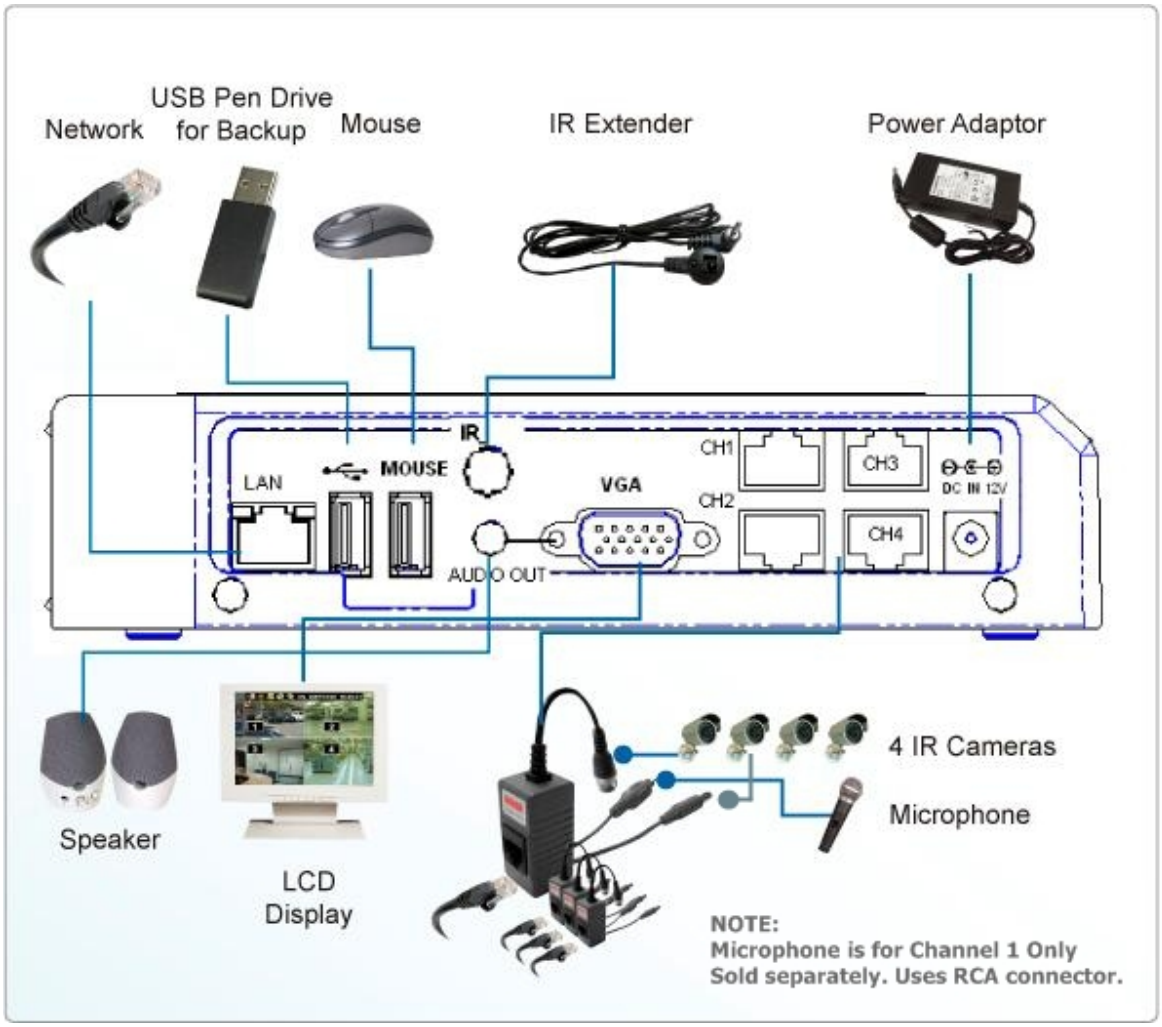
Step 4 Screw the top housing back to the bottom side of DVR by four screws.



2.2 External Device Installation

NOTE All devices must be connected first before turning the 4-Channel Surveillance DVR system on.

The following external devices can be connected to the Encore 4 Channel Surveillance DVR.



The USB connector on the rear panel is for a USB mouse.

2.2.1 Mouse

Connect a USB mouse to the USB connector labeled mouse (PS/2 compatible). Note that the USB port only supports USB mice, and no other USB devices.

2.2.2 LCD Display

Connect an LCD monitor to the VGA output to view the video output.

2.2.3 Security Cameras

Connect the included 4 Sony Standard IR Cameras to each of the BNC connector of the Balun then connect an RJ45 with twisted-pair cable to the Surveillance DVR. The included cameras don't have microphone built-in.

2.2.4 Power Adaptor

Connect the power adaptor plug to the DC-In port plug socket. Plug the other cable from the power adapter to the main wall outlet.

2.2.5 USB Flash Drive

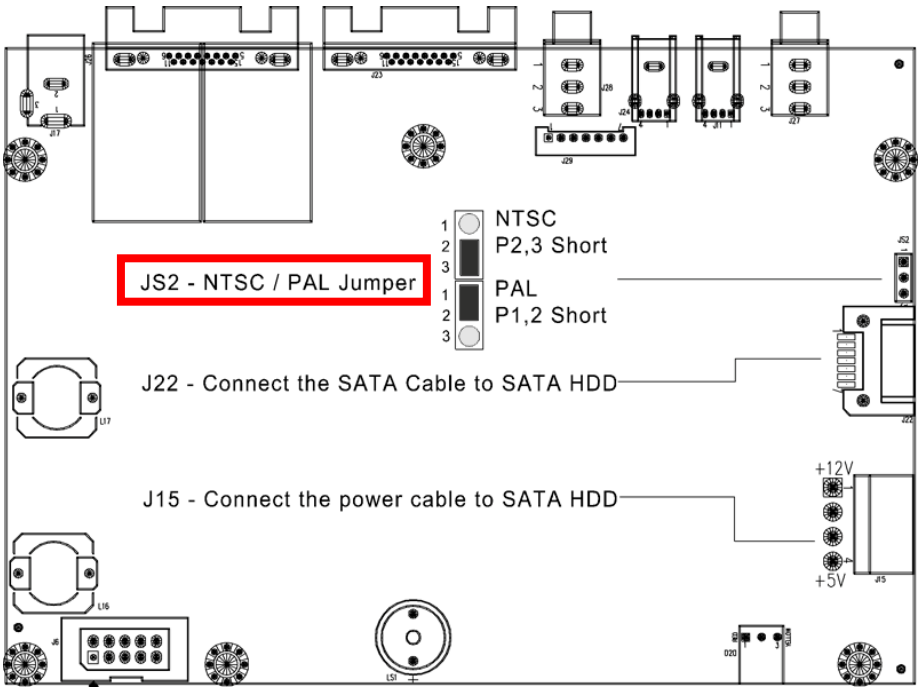
The USB flash drive is used for upgrading the firmware and for backing up recorded videos. This USB port only supports flash drives and do not support other regular USB devices.

2.2.6 IR Extender

The IR extender cable allows an infra red head to be placed in a location where it can be in the line-of-sight of the remote control.

2.3 0Selecting Video Format

The Encore Surveillance DVR can accept either PAL or NTSC video input. The correct video standard can be chosen using the jumper indicated below.



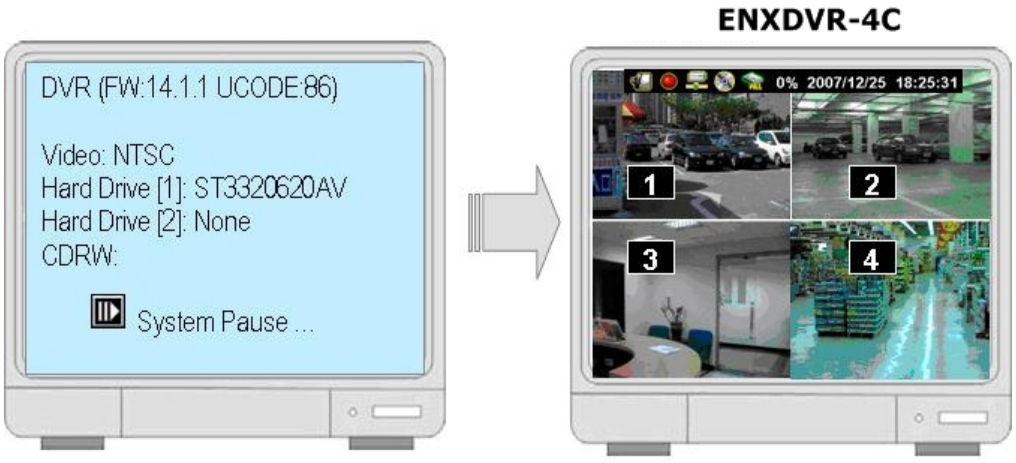
Chapter

3

Initial Setup

3.1 Initial Setup

After proper installation, the DVR is ready to use. After turning on the system, the DVR takes a few moments to startup. The main display screen is shown after the system is ready.



3.2 Onscreen Information

3.2.1 State Information

	Camera working		No signal from camera
	Recording		Stop recording
	Network connected		Network disconnected
	USB disk connected		Optical disk inserted
	Hard drive status		1st / 2nd drive active
	Hard drive overwrite enabled		Channel display rotation enabled

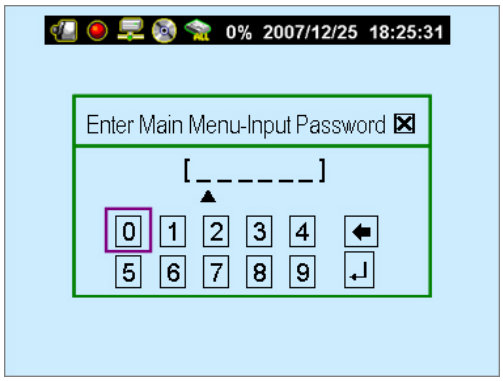
XX%	Percentage of hard drive already used
2007/12/25	Current date
18:25:31	Current time

3.2.2 Icons

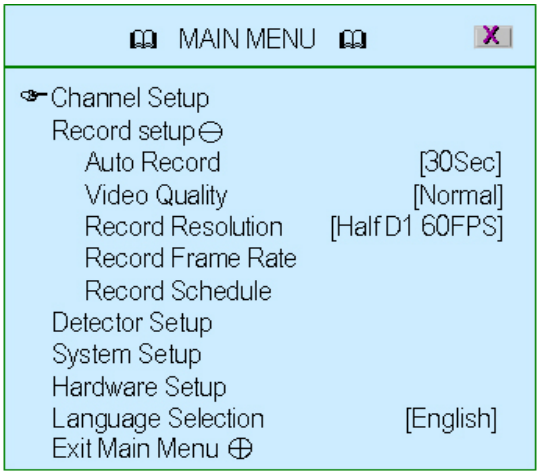
	4-channel split view		9-channel split view
	Auto channel rotation		Start recording
	Stop recording		Enter main menu
	Playback menu		Archive menu
	Event search		Pan/Tile/Zoom control
	Recording information		Hard drive information
	Network information		

3.3 Main Menu

Press 🕮 then enter the password to enter the main menu. Default password is “123456”. Press ✖ to exit the password dialog.



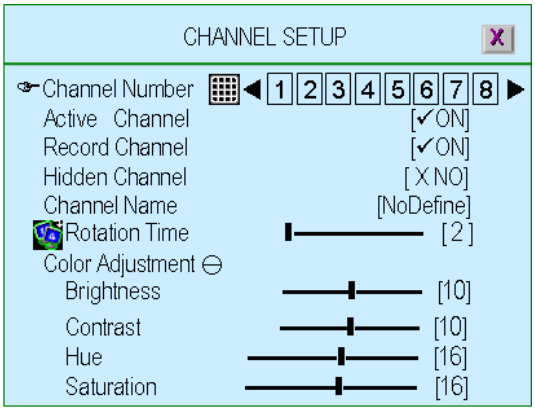
The main menu appears as shown below.



- **Channel Setup:** selects the channel to change the settings for. Select “All” to set the settings the same for all channels.
- **Record Setup:** sets the recording status
- **Detector Setup:** sets the channel to detect and the detection/sensor status
- **System Setup:** sets up most of the system options
- **Hardware Setup:** for updating the firmware, setting up the hard drive, display and audio
- **Language Selection:** selects the language for the system menus
- **Exit Main Menu:** exits the main menu

3.4 Channel Setup

Press 🕮 to enter the “Channel setup” as following.



3.4.1 Channel Number

Select the channel or channels to adjust.

”/” (default) sets viewing to full screen mode.

Select the channels to be viewed on the screen.

3.4.2 Active Channel

Enables and disables video inputs

ON – displays on screen and channel number changes to red

OFF – doesn’t display on screen and channel number turns to white

3.4.3 Record Channel

Sets the selected channels to record or not.

ON – selected channels are recorded

OFF – selected channels are not recorded

3.4.4 Hidden Channel

Sets the selected channel as hidden, so it may be recorded, but not displayed on the screen.

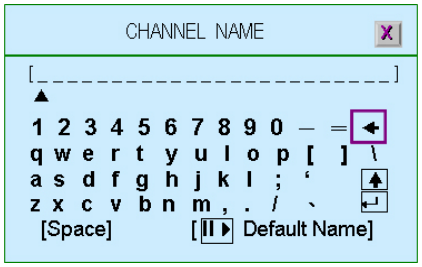
ON – the channel will be recorded, but not displayed on the screen

OFF – the channel is both recorded and displayed on the screen

3.4.5 Channel Name

Specify a readable name for the channel (up to 24 characters). Standard names include “Room”, “Hall”, “Door”, “Lift”, “Area”, “Floor”, “Entry” and “Point”.

Alternatively, define a custom name by choosing the letters from the onscreen keypad.



3.4.6 Rotation Time

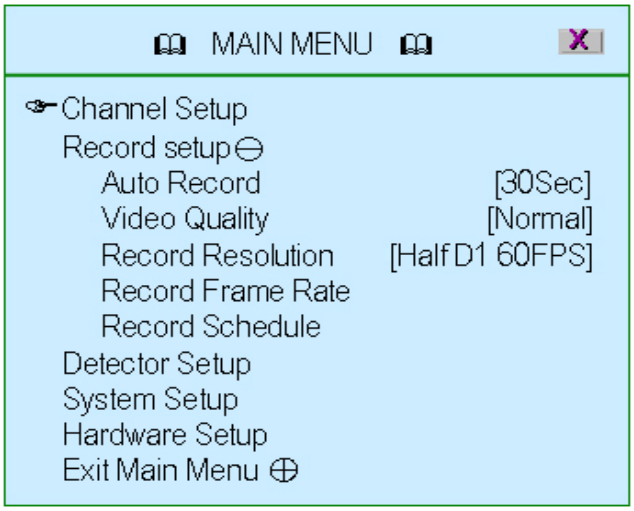
Set the delay between screen changes in screen rotation mode (2~30sec)

3.4.7 Color Adjustment

- **Brightness:** Press “↵” button to change (1~20). Default is 10
- **Contrast:** Press “↵” button to change (1~20). Default is 10
- **Hue:** Press “↵” button to change (1~32). Default is 16
- **Saturation:** Press “↵” button to change (1~32). Default is 16

3.5 Record Setup

Move cursor to "Record Setup" and press "↵" to enter "Record Setup" as following.



3.5.1 Auto Record

Set how long to wait before automatically recording after the system is turned on.

- 0 s (no automatic recording)
- 10 s
- 20 s
- 30 s
- 40 s
- 50 s
- 60 s

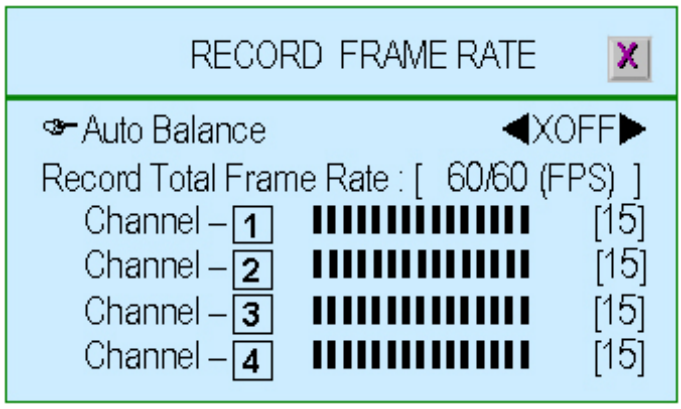
3.5.2 Video Quality

Three quality settings are available.

- Low – Lower quality video, but more video can fit on the hard drive
- Medium – a balance between Low and High quality
- High – Higher quality video, takes more hard drive space

3.5.3 Record Frame Rate

Setup the recording frame rate for each channel.



3.5.3.1 Auto Balance

Dynamically sets the frame rate for each channel. After turning on, any channel that sets off the alarm or senses movement will be give a higher frame rate until the alarm stops

3.5.3.2 Record Total Frame Rate

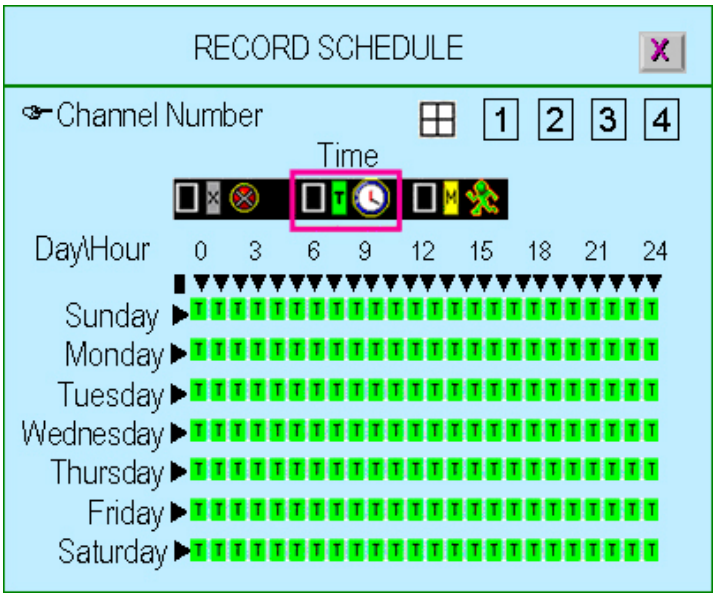
Setup the frame rate for each channel separately.

4-channels: 60/60FPS available, 15FPS per channel as default

8-channels: 56/60FPS available, 7FPS per channel as default

3.5.4 Record Schedule

Each channel can be set to record at certain times or when certain events happen.



3.5.4.1 Channel Number

Select the channel to change the schedule for.

" / " sets the schedule for all of the channels.

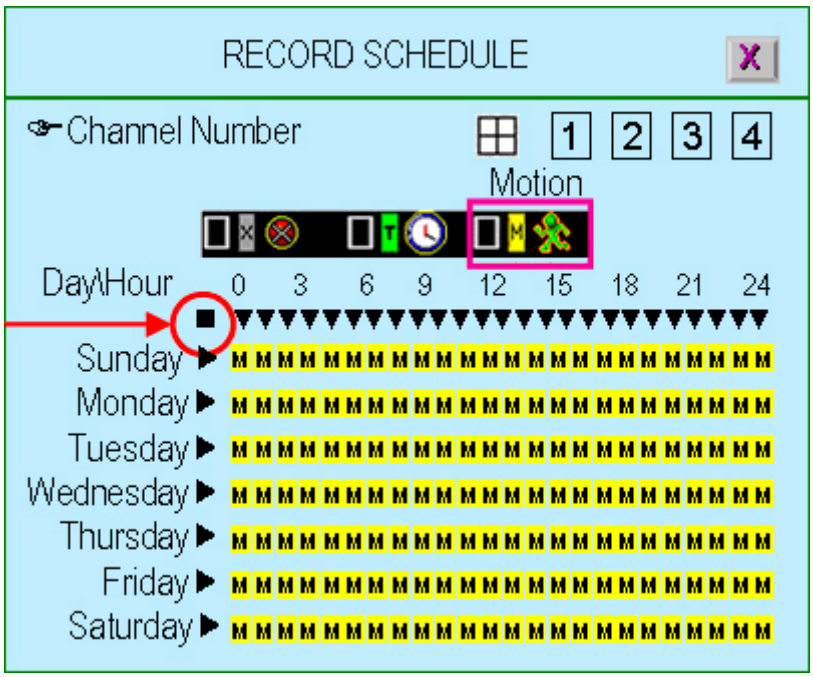
"1,2,3,4,5,6,7,8": sets the schedule for an individual channel.

3.5.4.2 Recording Mode Select

	None	Recording is off
	Time	Indicates to record by time schedule
	Motion	Indicates to record by motion detection

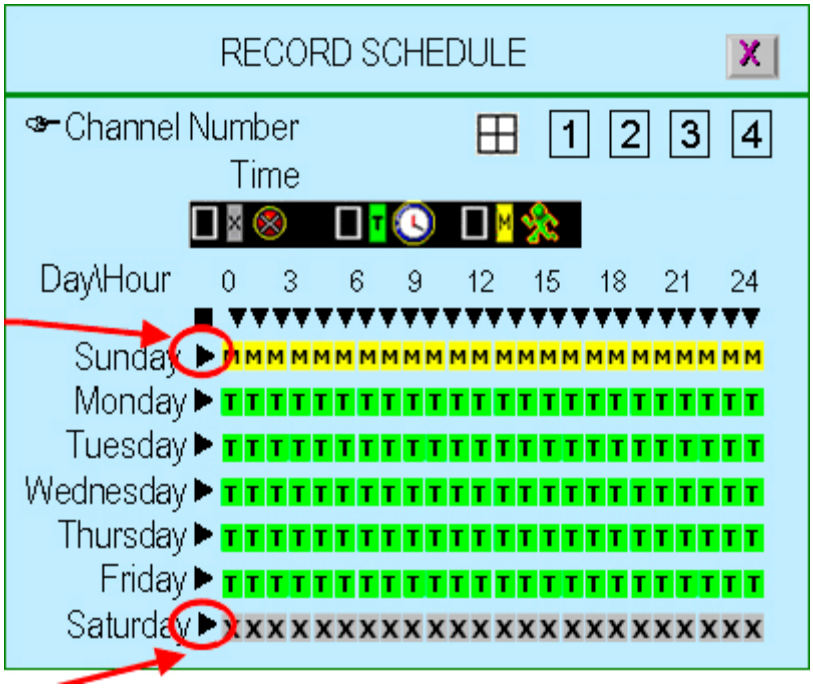
Select the setting you would like to apply to the time slots on the calendar.

To set everything to this setting press "■" in the top left corner.

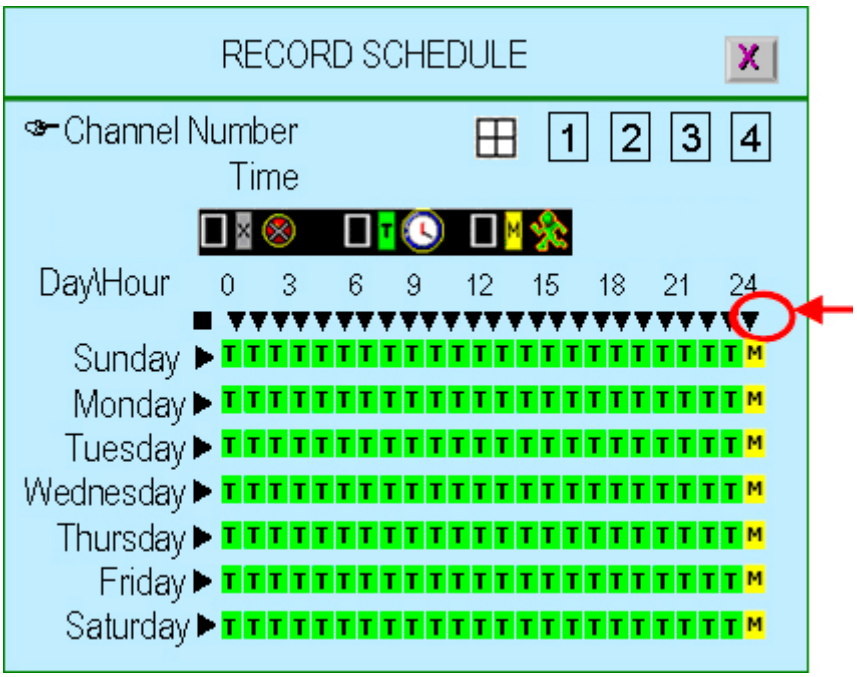


Set the selection for a whole day by clicking the ▶ to the left of the day.

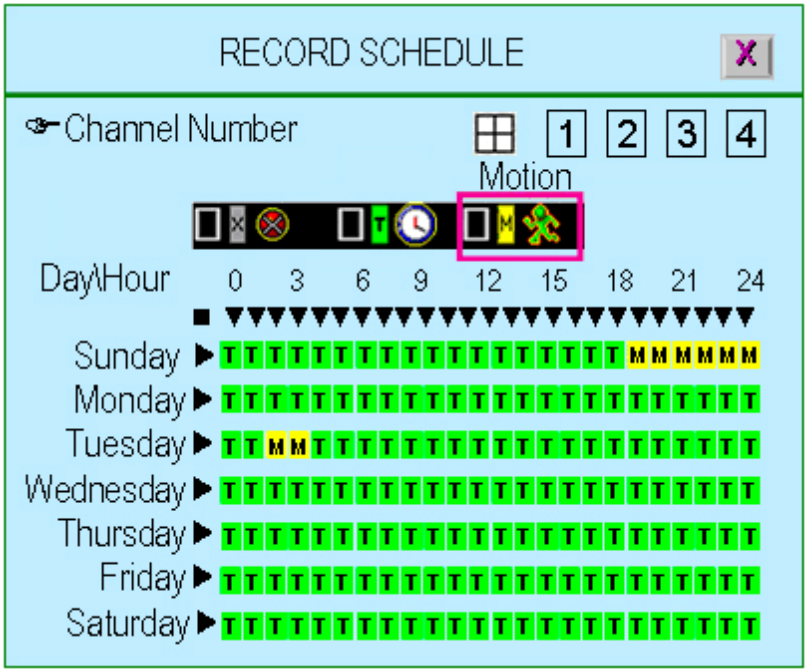
For example, Sunday is set to “Motion” mode and Saturday to “None Record mode”



To set for the same time on everyday, click the ▼ above that time slot.

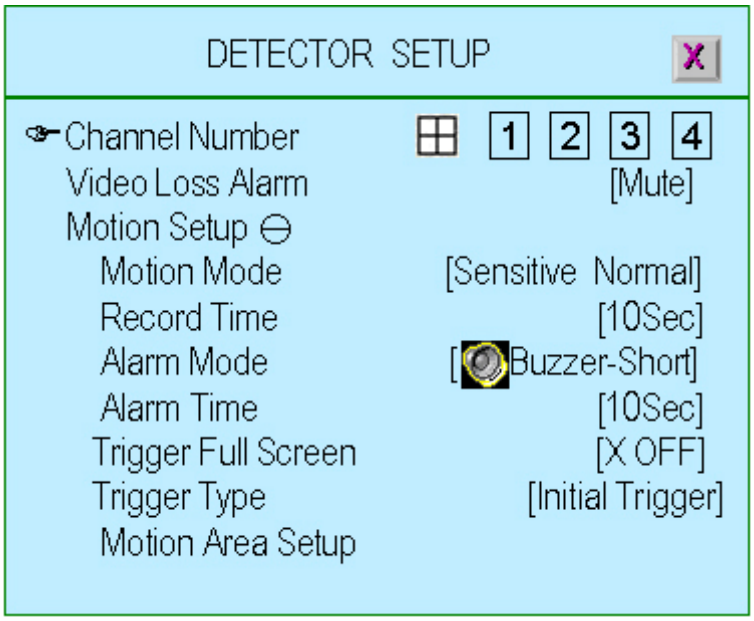


Each block on the calendar can also be individually set by just clicking on it.



3.6 Detector Setup

Adjust the motion sensor sensitivity.



3.6.1 Channel Number

Choose the channel to set.

" / **"** applies the settings to all the channels

Select **"1,2,3,4" "1,2,3,4,5,6,7,8"** to apply the settings to just the selected channel.

3.6.2 Video Loss Alarm

To setup alarm mode when video loss by each/all channel:

"Mute": No sounds ever.

"Buzzer-Short": sounds a small beep when the video signal stops

"Buzzer-Long": sounds a long beep when the video signal stops

3.6.3 Motion Setup

To select the motion sensitivity scale as “Sensitive OFF”, “Sensitive Low”, “Sensitive Normal”, “Sensitive High” or “Sensitive Highest”.

“Sensitive OFF”: doesn’t detect any movement

“Sensitive Low”: activates for the biggest movements

“Sensitive Normal”: activates for normal movement

“Sensitive High”: activates for very small movement

“Sensitive Highest”: activates for almost any movement

3.6.4 Record Time

Set how long the timed recording lasts. The following options are available: 5, 10, 15, 20, 25, 30, 45, 60, 90, 120, 150 or 180 seconds.

3.6.5 Alarm Mode

To setup the alarm mode when motion is triggered.

“Mute”: no beeping

“ **Buzzer-Short”:** emit a small beep when something is detected.

“ **Buzzer-Long”**: emit a longer beep when something is detected.

“ **Alarm-Short”:** sound the external alarm for a short time when the alarm is triggered.

“ **Alarm-Long”:** sound the external alarm for a short time when the alarm is triggered.

3.6.6 Alarm Time

Sets how long recording lasts after the alarm. The following options are available: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 or 60 seconds.

3.6.7 Trigger Full Screen

When activated the channel that detected movement will be maximized to fill the whole screen.

“OFF”: It will not display in full screen when the channel is triggered. Also, the trigger area will turn to “red-color”

3.6.8 Trigger Type

Initial Trigger and Continuous Trigger are available.

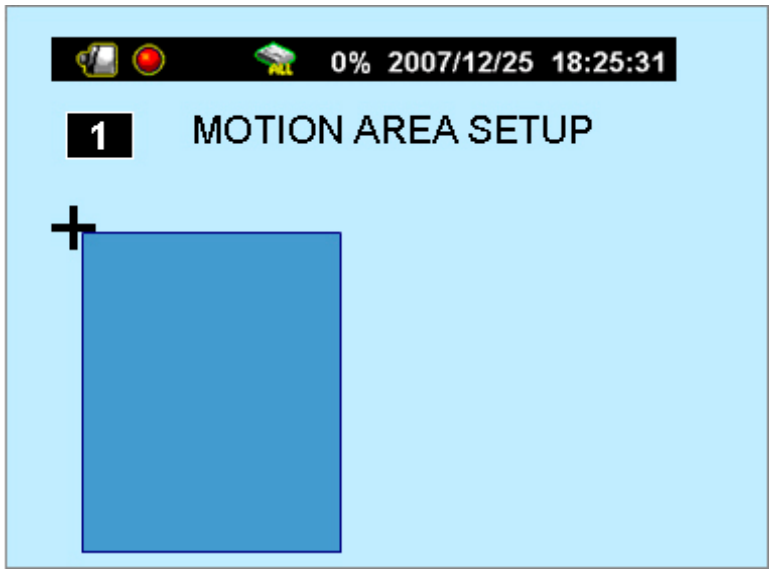
Initial Trigger: timing starts when the first movement is detected, and stops when the allotted time is finished. Recording will start again if more movement is detected.

Continuous Trigger: timing starts when the first movement is detected, but the amount of recording time elapsed is reset every time more movement is detected.

3.6.9 Motion Area Setup

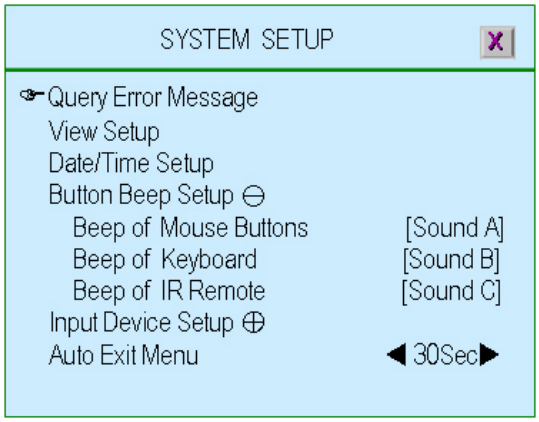
Select the motion detection area. This must be set for motion detection to work. If not set, no motion detection will occur.

Use ▲(↑), ▼(↓), ◀◀ (◀), ▶▶(▶) to adjust the area. Press “🕮” or right-click to save.



3.7 System Setup

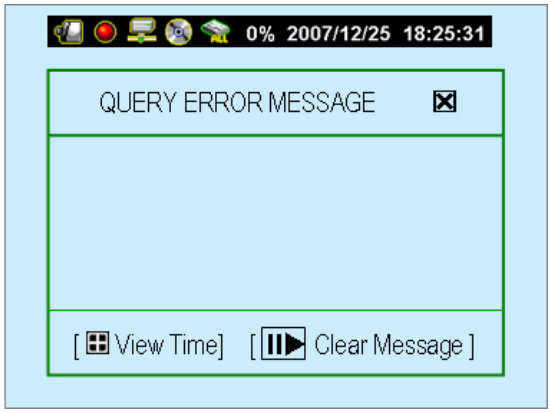
To set up the Password, time, date and button beep…etc.



3.7.1 Query Error Message

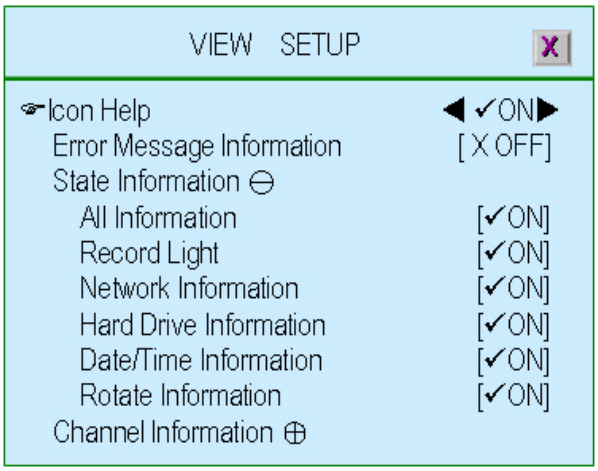
Display logs for all error messages.

"⊞": Show error message with time stamp. "II▶": Clear all error messages.



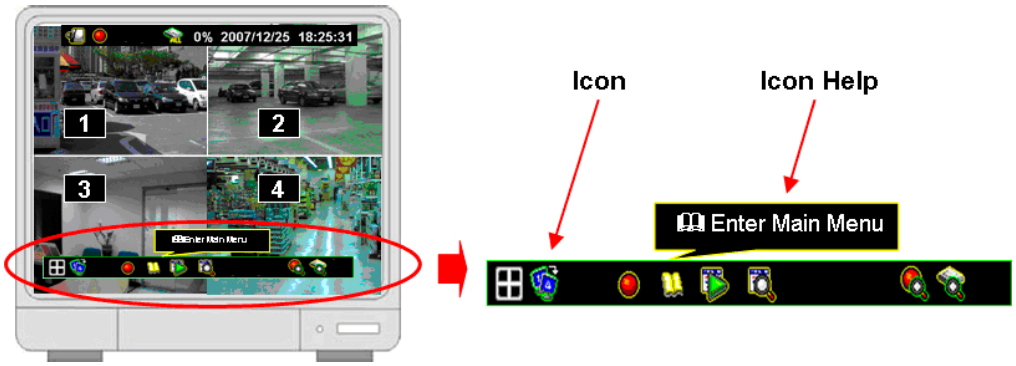
3.7.2 View Setup

Set which items appear on the main in recording mode.



3.7.2.1 Icon Help

When it is OFF, no icons will appear on the main recording screen. Alternatively, icons can be disabled individually as detailed in the sections below.



3.7.2.2 Error Message Information

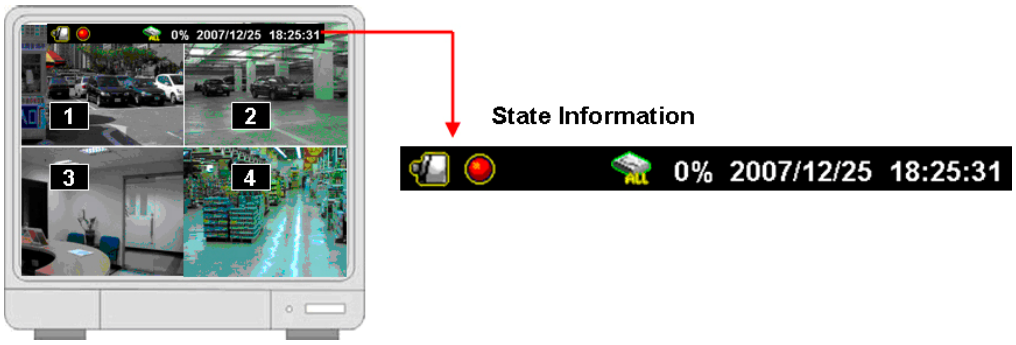
System will save all error messages, all messages will be cleared after reboot.

"✓ ON" - Display the error message.

"X OFF" – Does not display the error message

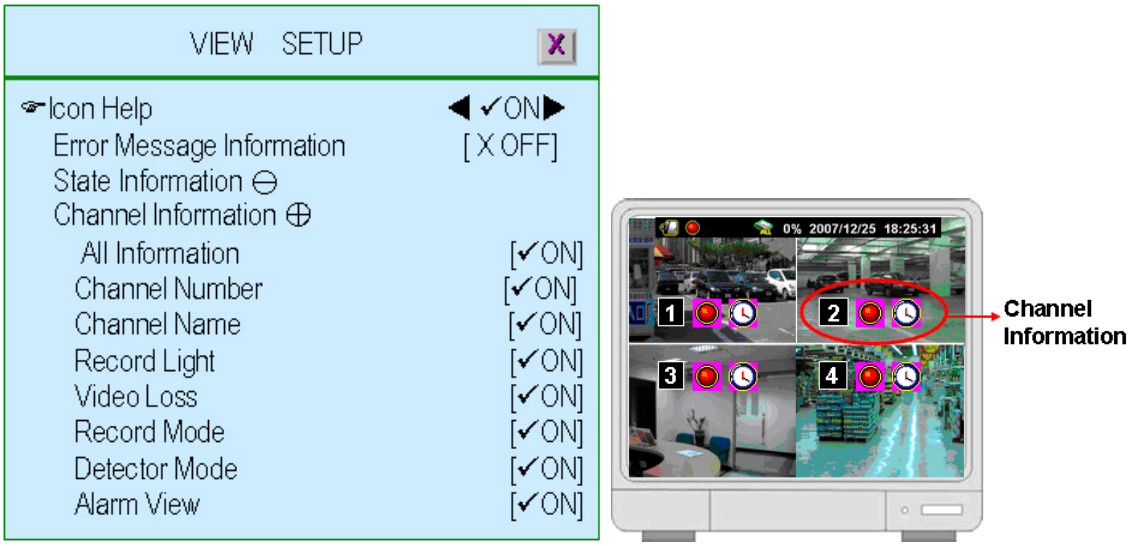
3.7.2.3 State Information

It includes record light, hard drive information, date/time information and rotate information. All information can be set separately to be seen or not.



3.7.2.4 Channel Information

Channel information includes channel number, channel name, record light, video loss, record mode, detector mode and alarm view. All information can be set separately to be seen or not.



1,2,3,4,5,6,7,8 Channel Number

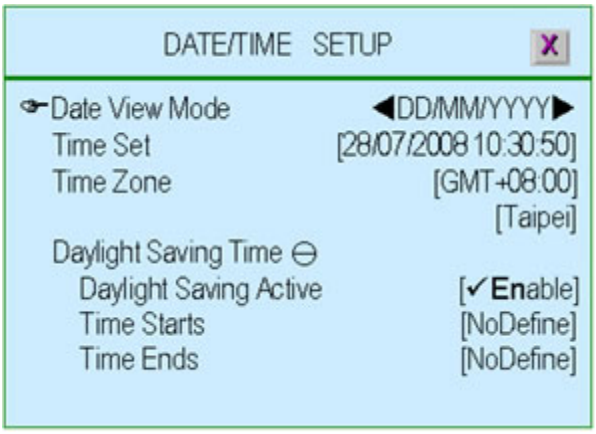
: Recording status : Video Signal Status

: Detection mode and status (Icon will blink when motion is triggered)

: Alarm Active : Buzzer active

3.7.3 Date/Time Setup

Setting up date and time



3.7.3.1 Date View Mode

Sets the date display format

Ex: DD/MM/YYYY, MM/DD/YYYY or YYYY/MM/DD.

3.7.3.2 Time Set

To setup the day/time.

▲ / ▼ (↑ / ↓): change the number

⏮/⏭(◀ / ▶): move selection left or right

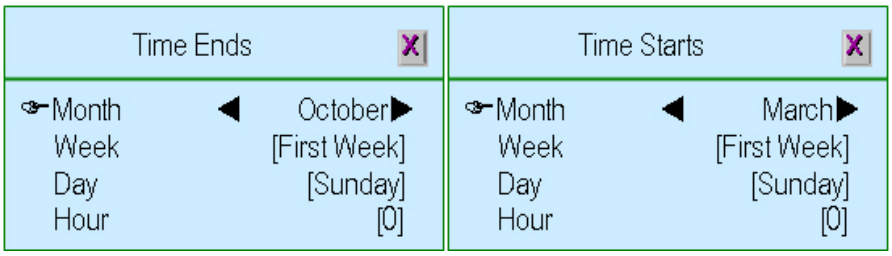
🕮 : exit

3.7.3.3 Time Zone

Set the time zone where you are located.

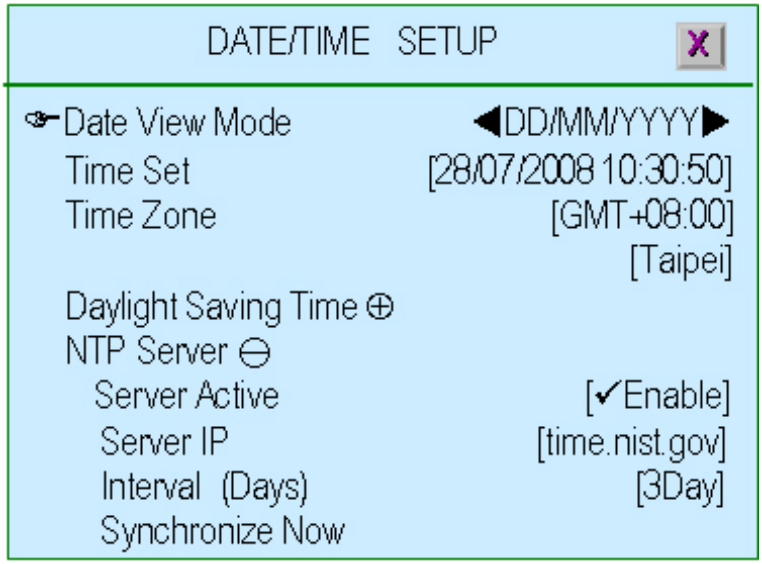
3.7.3.4 Daylight Saving Time

Set daylight savings time settings.



3.7.3.5 NTP Server

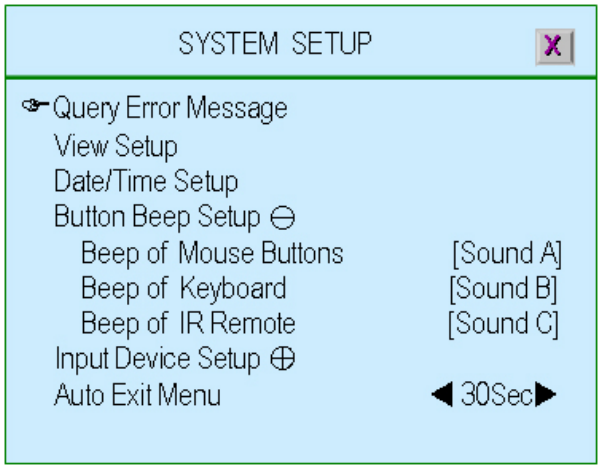
Synchronize DVR day/ time to NTP server through internet.



- **Server Active**: "✓Enable"-To set this function available. " X Disable"-Ignore this function
- **Server IP:** The IP address of NTP server
- **Interval (Days):** Set how many days to synchronize
- **Synchronize Now:** Select it to start Synchronizing the NTP server

3.7.4 Button Beep Setup

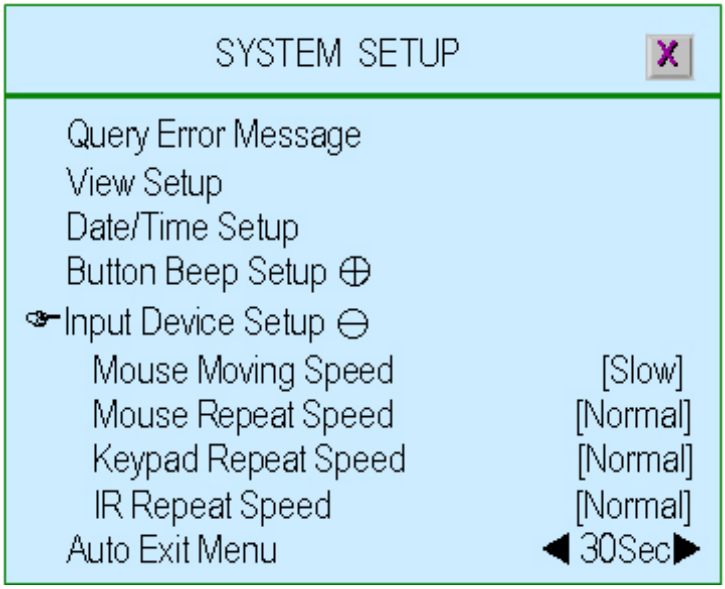
The system beep will sound when certain events occur. Each can be set to mute, Sound A, Sound B or Sound C.



(Keypad beep setting is available for the keypad equipped models)

3.7.5 Input Device Setup

To setup the speed of input device: mouse, mouse repeat, keypad and IR remote as Slow, normal or fast

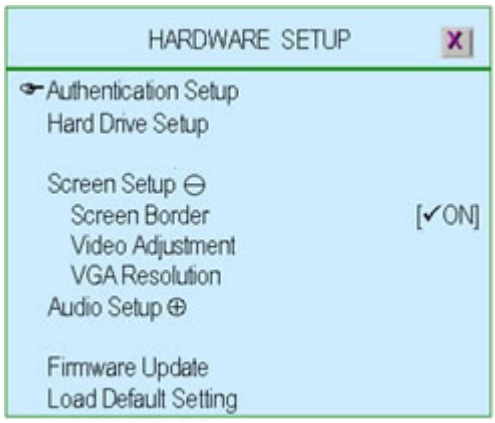


(Keypad repeat speed is available for the keypad equipped models)

3.7.6 Auto Exit Menu

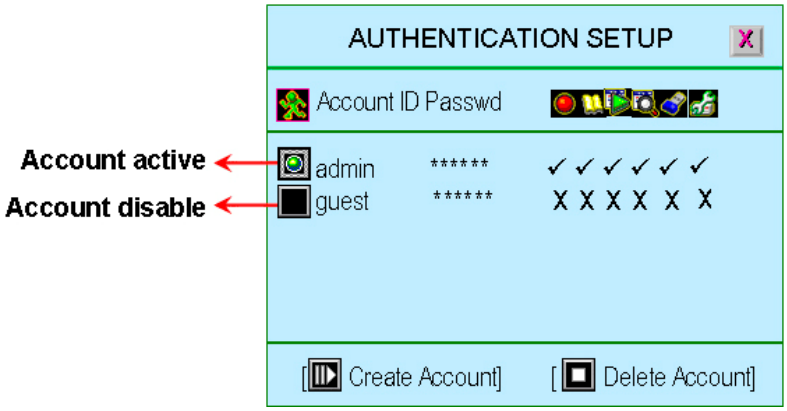
Set the menu to automatically exit after a period of time. Set to OFF to only exit manually, otherwise exit after 10, 20, 30, 40, 50 or 60 seconds.

3.8 Hardware Setup



3.8.1 Authentication Setup

Set user permissions.



: create a new account or delete account.

"◀◀ (◀), ▶▶(▶)": set the permissions. A "✓" indicates that user has permission. An "X" indicates that user does not have permission.

(Account Active): The account is active.

(Account Disable): The account is not active.

Account ID (account name): Enter characters as account ID.

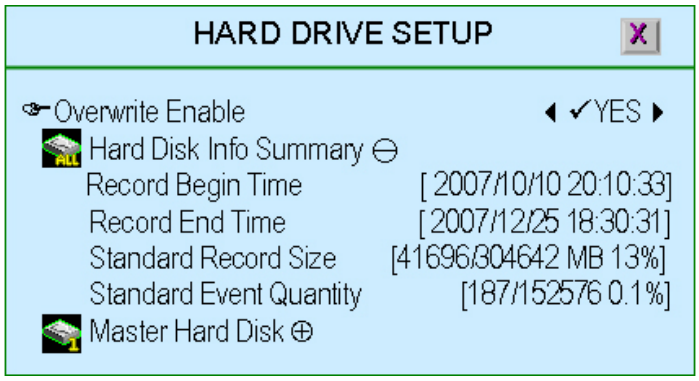
Password (Password): By entering six characters or numbers as password.

Remark:

- Settings that are disabled for all users can be freely adjusted without entering a password.
- If all accounts are disabled then all settings can be changed by anyone.

3.8.2 Hard Drive Setup

To set up the hard drive information and the overwriting function.



3.8.2.1 Overwrite enable

"✓YES": The hard drive automatically writes over the oldest video on the hard drive when it runs out of space for recording

"X NO": Recording will stop when the hard drive is full.

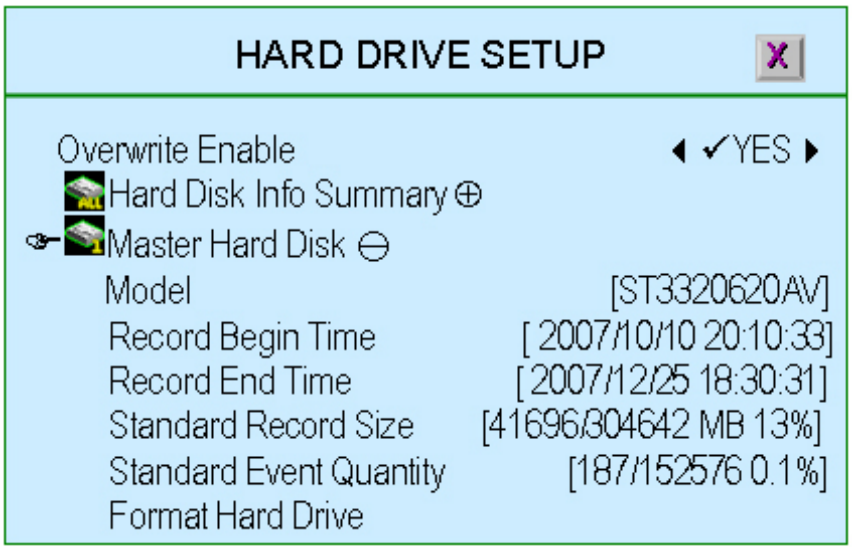
3.8.2.2 Hard Disk Info Summary

It will display the Hard Drive model No. automatically.

- **Record Begin Time:** The starting day/time of hard drive recording
- **Record End Time**: The latest day/time of hard drive recording
- **Standard Record Size:** The recorded Capacity / Total hard drive capacity by Mega-byte. Also show up the % of how much capacity has been used.

- **Standard Event Quantity**: The capacity has been recorded of event / Total capacity for event.

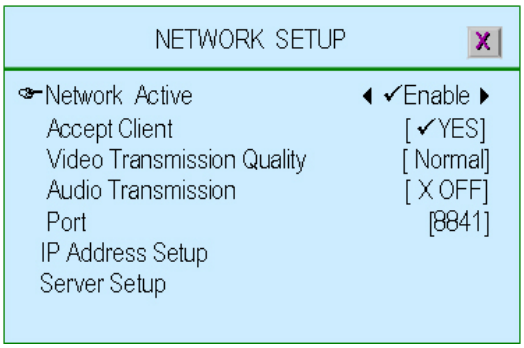
3.8.2.3 Master Hard Disk



- **Model:** master hard drive model number
- **Record Begin Time:** The day and time this drive was first recorded onto
- **Record End Time**: The most recent day and time the drive was recorded onto
- **Standard Record Size:** The recorded Capacity / Total hard drive capacity by Mega-byte. Also show up the % of how much capacity has been used.
- **Standard Event Quantity**: The quantity has been record of event / Total quantity for event.
- **Format Hard Drive:** To format the hard drive. If the system is running at recording mode, it is not permitted to format the hard drive and shows a warning.

3.8.3 Network Setup

To set up Network configurations



3.8.3.1 Network Active

"✓ Enable": Network is permitted to be used

"X Disable": Network is not permitted to be used

3.8.3.2 Accept Client

"✓YES" to enable the network client function.

"X NO" means there is no network client available.

3.8.3.3 Video Transmission Quality

Setup the quality of Video Transmission as High, Normal or Low.

3.8.3.4 Audio Transmission

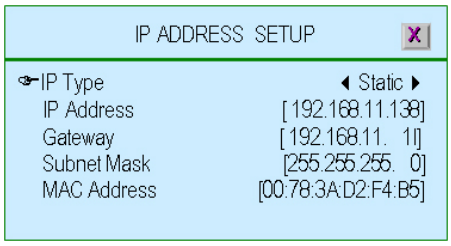
"✓ON": Enable or **"X OFF"**: Disable audio transmission

3.8.3.5 Port

Assign a communication port (a series of number).

3.8.3.6 IP Address Setup

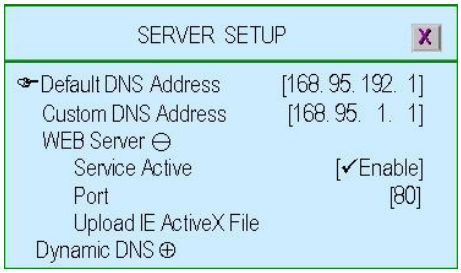
The IP address acts as a locator for one IP device to find another and interact with it.



There are two kinds IP types: Static IP address and Dynamic IP address (DHCP and PPPoE) for selection.

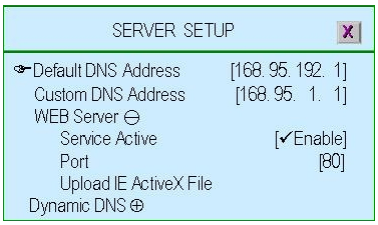
- **Static IP Address:** When a computer uses the same IP address every time it connects to the network, it is known as a Static IP address
- Static IP addresses are manually assigned to a computer by an administrator
- **DHCP:** With dynamic IP addresses, where an IP address is automatically assigned to a computer by a remote server which is acting as a Dynamic Host Configuration Protocol (DHCP) server
- **PPPoE:** Dial-up and some broadband networks do not use DHCP, but instead use the dynamic IP addressing capability of the Point-to-Point Protocol over Ethernet.
- **GATEWAY**: Gateway IP address, please check with your M.I.S staff or administrator to enter the setting.
- **SUBNET MASK:** Subnet mask is a range of logical addresses that is assigned to an organization. Please check with your M.I.S staff or administrator to enter the setting
- **MAC Address:** It is a number that acts like a name for a particular network adapter. It has been set at dedicated address even reset the DVR.

3.8.3.7 Server Setup

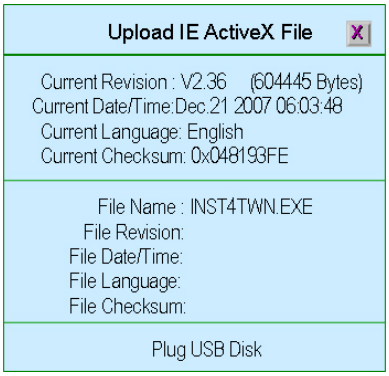


- **Default DNS Address:** The Domain Name system (DNS) translate hostnames to IP addresses (default setting). If there is no customer DNS address setting or fail, DVR will go for Default DNS Address.

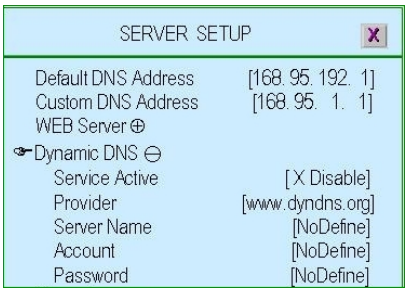
- **Custom DNS Address:** The Domain Name system (DNS) translate hostnames to IP addresses (customer setting).
- **WEB Server:** DVR WEB Server response the requests from browsers, and serve remote monitoring through IE Browser.



- **"Service Active"**: Enable the Web Server service.
- **"Port":** Assign a port as the Web Server
- **"Upload IE ActiveX File":** Upload Active-X component to DVR for PC (IE Browser) using. To get Active-X component from CD as attached and save it into USB disk. Then plug the USB disk into DVR for installation.



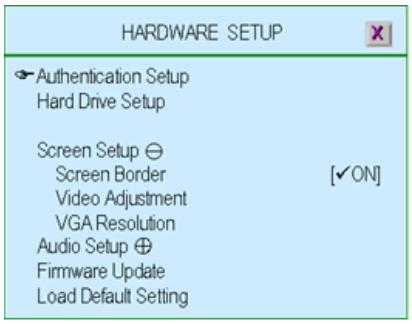
- **Dynamic DNS:** Dynamic DNS is a system which allows the domain name data held in a name server to be updated in real time.



- **"Service Active"**: Enable the Dynamic DNS service.
- **"Provider":** The web site / IP Address of Dynamic DNS provider
- **"Server Name":** To define a name of Dynamic DNS
- **"Account":** The account name of Dynamic DNS

- **“Password”**: Password for Dynamic DNS Please refer to **DYNDNS Service**

3.8.4 Screen Setup



3.8.4.1 Screen Border

“✓ON”: To enable the border, **“X OFF”:** To disable the screen border.

3.8.4.2 Video Adjustment

Adjust the whole picture to right/left or up/down by pressing ◀◀/▶▶(◀ / ▶)

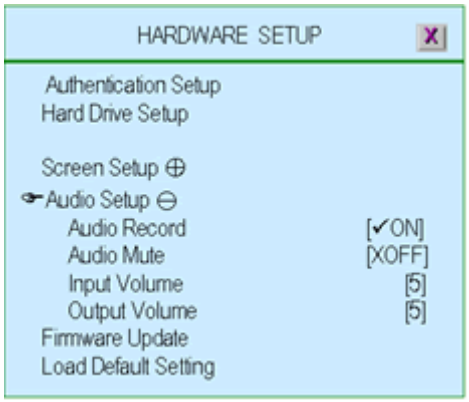
or ▲ / ▼ (↑ / ↓). **“ / / ”:** Set it as default location

3.8.4.3 VGA Resolution

To set the resolution as 640x480, 800x600, 1024x768 or 1280x1024.

3.8.5 Audio Setup

Sets up audio recording and playback options.



3.8.5.1 Audio Record

"✓ON": Enable audio recording. **"X OFF"**: Disable audio recording

3.8.5.2 Audio Mute

"✓ON": the audio is played through the audio output on the DVR

"X OFF": the DVR audio output is muted

3.8.5.3 Input Volume

"X OFF": Turn off the audio input volume

“1,2,3,4…….10”: Adjust audio input volume from quiet to loud.

3.8.5.4 Output Volume

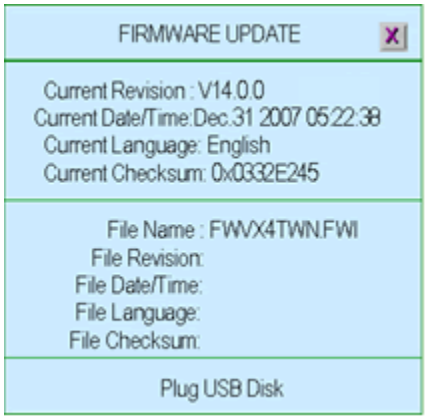
“X OFF”: Turn off the audio output volume

“1,2,3,4, …….10”: Adjust audio output volume from quiet to loud.

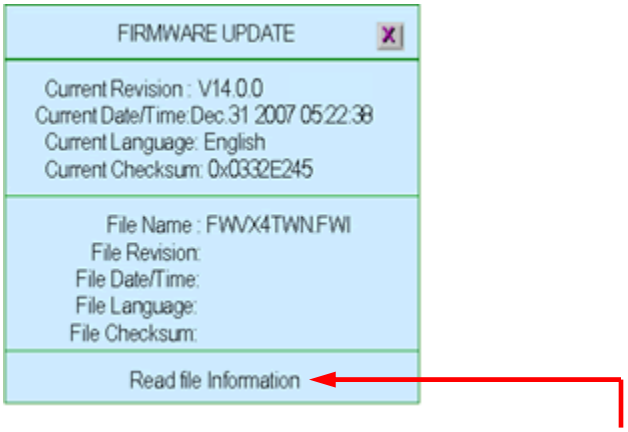
3.8.6 Firmware Update

The firmware is updated by putting a USB pen drive with the flash file into the USB port.

Plug the USB disk into the USB port on DVR rear panel

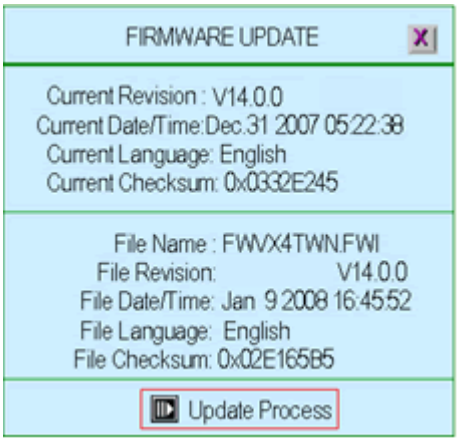


After plug in USB disk, it shows” **Read file Information**” on the bottom line

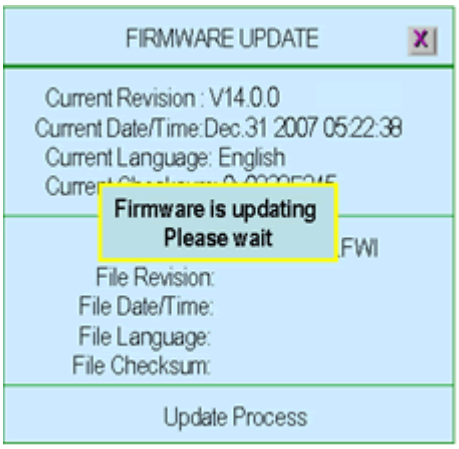


If there is a mistake or missing file on the pen drive, it will show: **File not found or Disk Error** on the bottom line. Please check USB disk or file and plug in again.

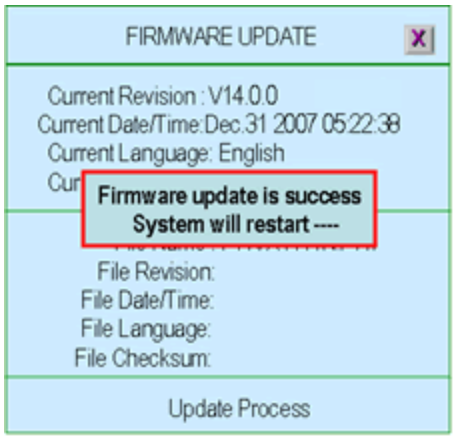
After reading the firmware is displayed. Click this button on begin the upgrade.



When DVR is updating the firmware, it shows "**Firmware is updating, please wait**".



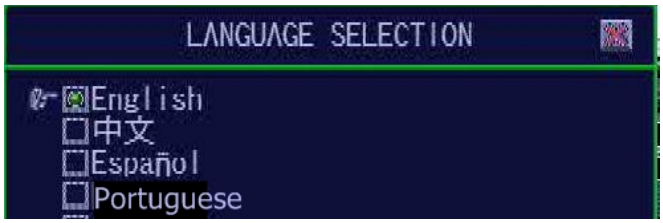
After firmware update is completed, **Firmware update is success, System will restart ----**" is displayed, and then the system restarts.



3.9 Language Selection

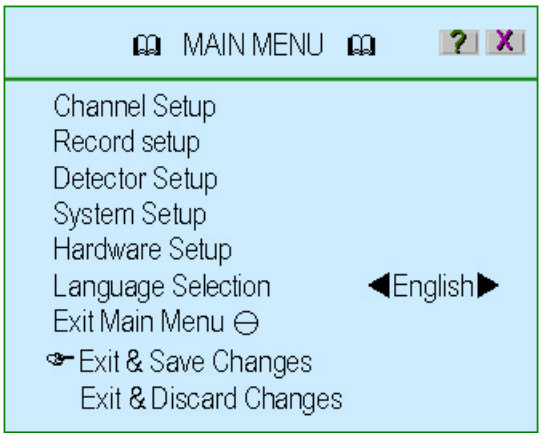
The DVR supports the following languages (default language depends on regional settings)

- English
- Traditional Chinese
- Spanish
- Portuguese



3.10 Exit Main Menu

Save or discard changes before exiting.

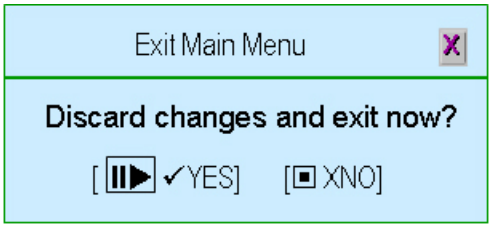


3.10.1 Exit & Save Changes

Save all changes then exits.

3.10.2 Exit & Discard Changes

Exits without saving any of the changes made. Confirm with “Yes” or go back to the menu by choosing “No”.



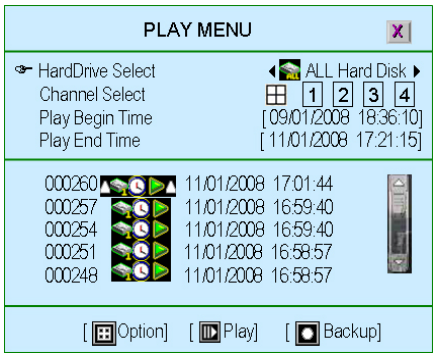
Chapter

4

Data Backup

4.1 Backing Up Data

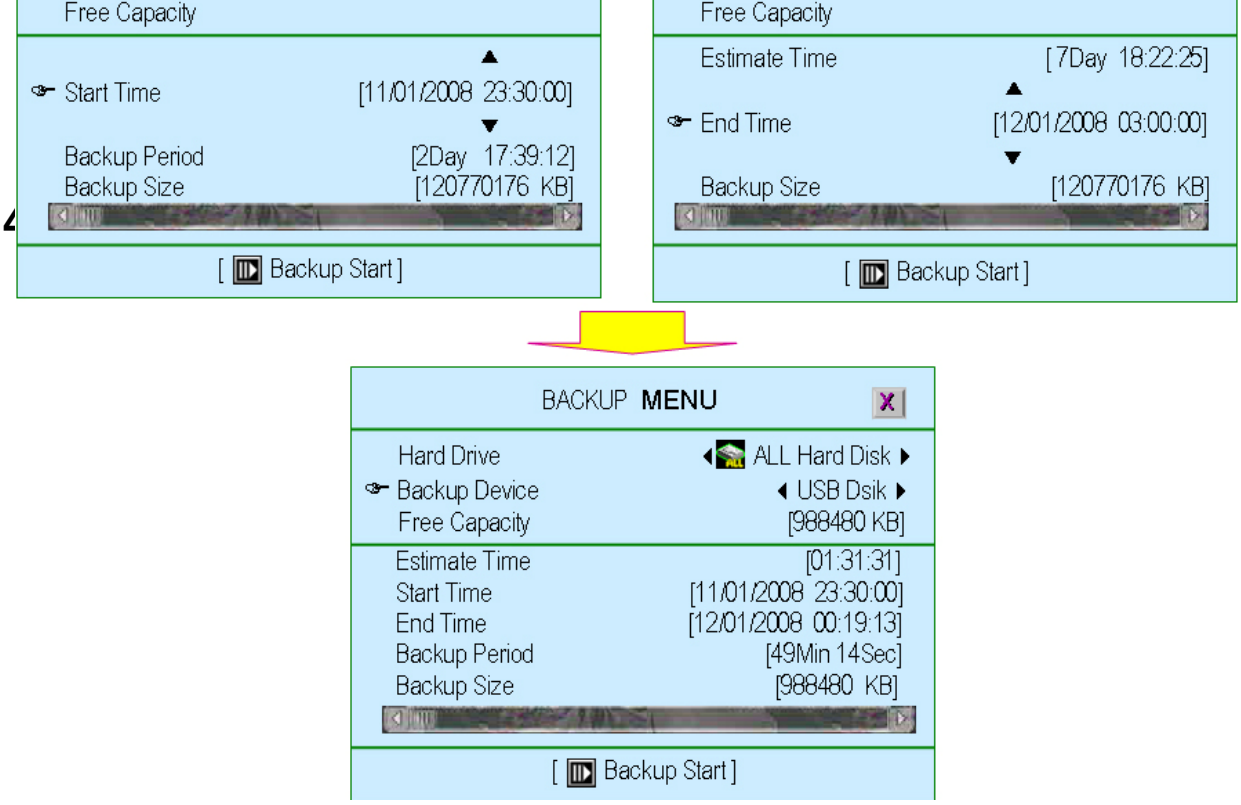
Press "▶" (or "**II**▶") button to enter the Play menu.



Use **"▲▼(↑/↓)"** buttons to select the data to backup. Press" " to enter the "Backup Menu".

Disk information is shown in the top portion, recorded data information is shown in the bottom portion.

- **Hard Drive:** shows the hard drive the data will be backup up to.
- **Backup Device:** shows the USB disk for data backup.
- **Free Capacity:** shows the amount of free space on the USB disk.


Free Capacity
Start Time [11/01/2008 23:30:00]
Backup Period [2Day 17:39:12]
Backup Size [120770176 KB]
[Backup Start]
Free Capacity
Estimate Time [7Day 18:22:25]
End Time [12/01/2008 03:00:00]
Backup Size [120770176 KB]
[Backup Start]
BACKUP MENU
Hard Drive ALL Hard Disk
Backup Device USB Dsik
Free Capacity [988480 KB]
Estimate Time [01:31:31]
Start Time [11/01/2008 23:30:00]
End Time [12/01/2008 00:19:13]
Backup Period [49Min 14Sec]
Backup Size [988480 KB]
[Backup Start]

Chapter

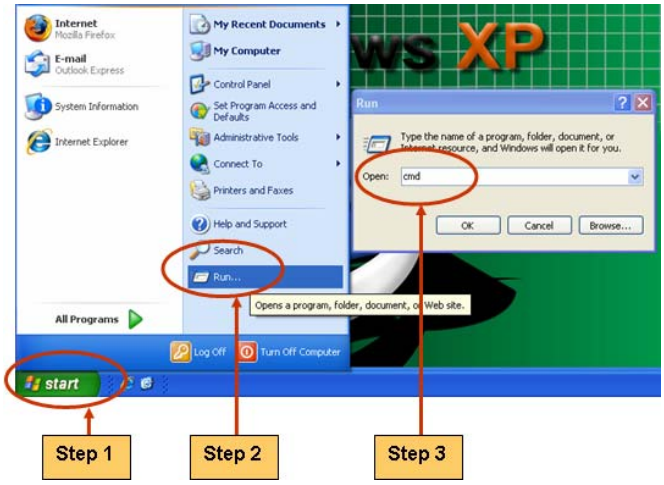
5

LAN & Online Viewing Setup

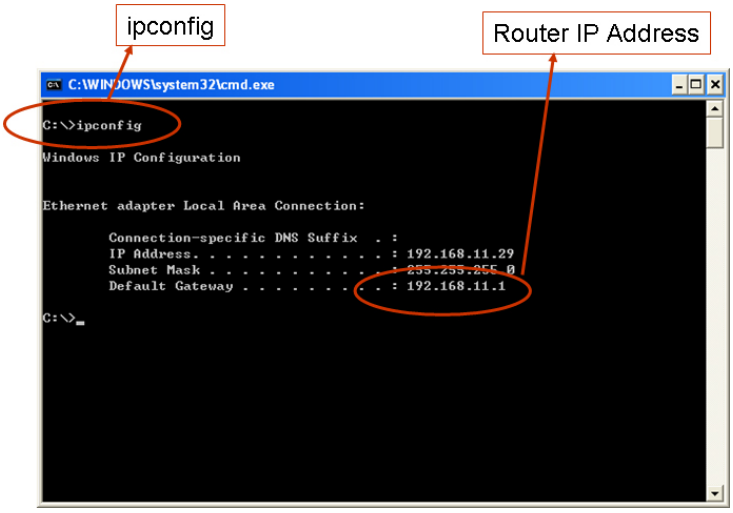
5.1 Identify Router IP Address

Please click “Start” and then “Run” option under Windows.

Please enter “CMD” and then “OK”



Please enter “ipconfig” on DOS prompt, and then record the Address Number of Default Gateway as shown: It is the Router’s IP Address.

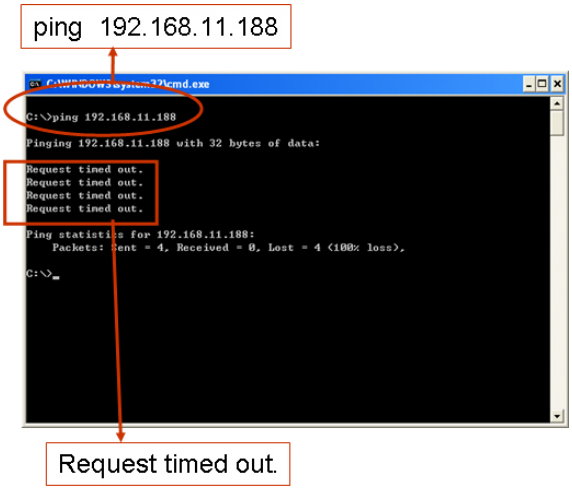

ipconfig
Router IP Address
C:\WINDOWS\system32\cmd.exe
C:\>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . :
IP Address. . . . . : 192.168.11.29
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.11.1
C:\>

Finding your ENXDVR-4C Surveillance DVR IP address

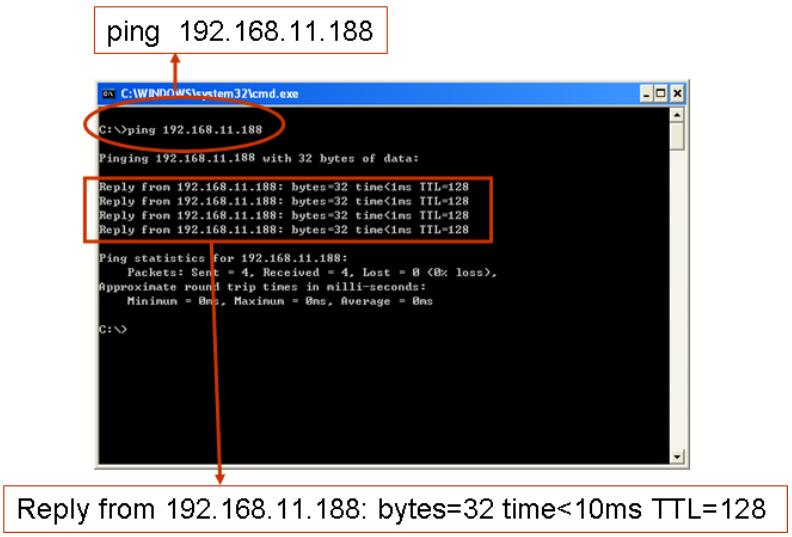
Because the Router IP address is 192.168.11.1 as we found out earlier, the network domain IP address would be 192.168.11.xxx (where x are variables). Generally the usable IP Address in this range would be between 192.168.11.2 ~ 192.168.11.253. The suggested range to be use should be from 192.168.11.160 to 192.168.11.199.

Then search for an IP Address that is not being used at the present. Use the PING technique. At the DOS Prompt, type-in - ping 192.168.11.188

If it appears “Request timed out” as the resulted message that means this IP address is not being used at the moment and can be used for the DVR



If it appears “Reply from 192.168.11.188: bytes=32 time<10ms TTL=128” messages, that means this IP Address [192.168.11.188] is being used and assigned to some network device, do not use this one or it will conflict with other device. Please try to find out another IP Address that is not being used.



Then, go back to DVR menu: “Network Setup” to enter the FREE IP address.

- IP ADDRESS: Enter the DVR’s address [192.168.011.188]
- GATEWAY: Enter Router IP Address[192.168.011.001]
- NET MASK: 255.255.255.0
- PORT: Enter the DVR’s port number [14338 14337]

5.2 DynDNS Service Overview

For DVR only can set at static IP address and no support the dynamic IP. If you have to use dynamic IP that it recommend serving as DYNDNS service.

DYNDNS is a service the maps internet domain names to IP address and works with dynamic IP address (assigned by ISP server).

Remark: A router is needed as the interface between PC and DVR when DVR is under internal network environment.

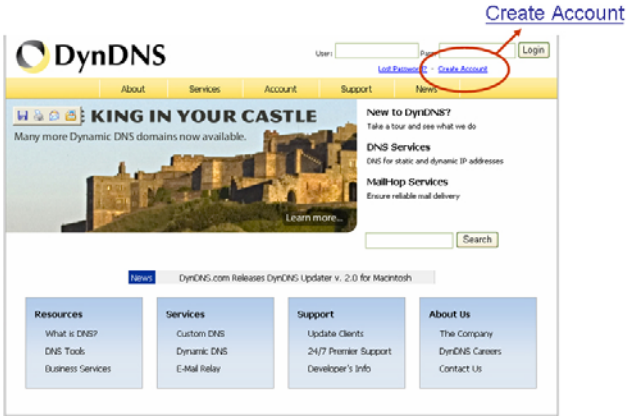
5.3 Register with DynDNS

There are three suggestions for DYNDNS:

www.no-ip.com, www.changeip.com and www.dyndns.com

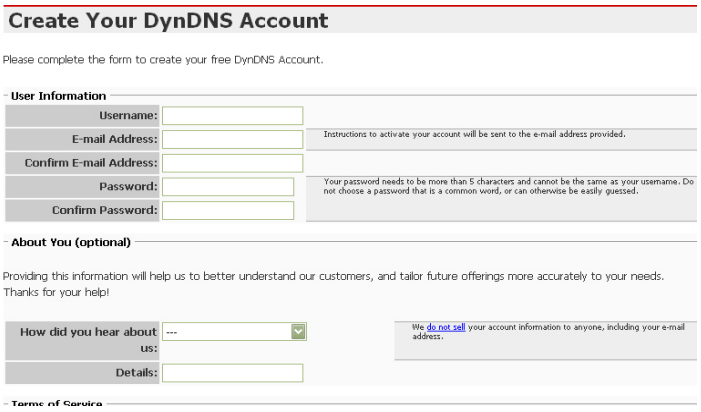
The following will use DYNDNS website: http://www.dyndns.com as example.

Create Account at the first beginning after entering DynDNS (DYNDNS service) website.

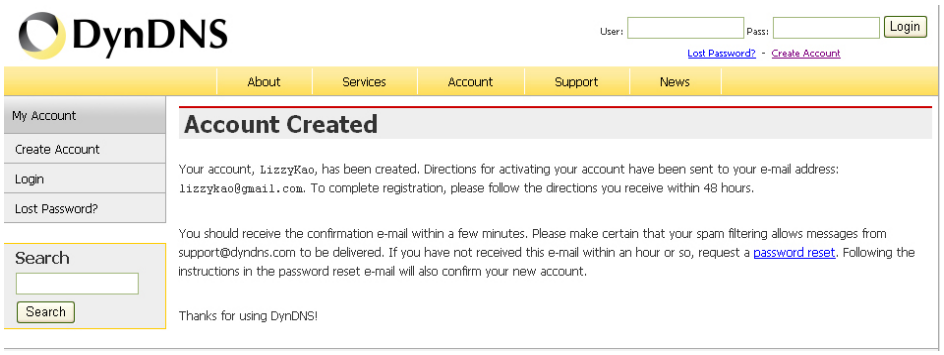


5.4 Create DynDNS Account

Click the Create Account, and then start to create your own DynDNS Account and fill out all the blanks for account's application as following:


Create Your DynDNS Account
Please complete the form to create your free DynDNS Account.
User Information
Username:
E-mail Address:
Confirm E-mail Address:
Password:
Confirm Password:
About You (optional)
Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs.
Thanks for your help!
How did you hear about us:
Details:

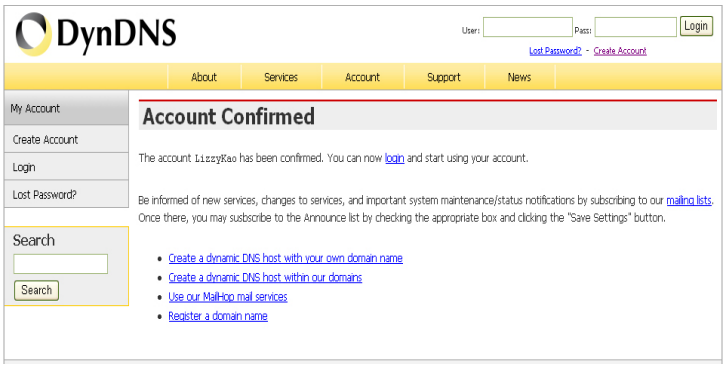
After you click "Create Account", it shows "Account Created".


DynDNS
User:
Pass:
Login
Lost Password? - Create Account
About
Services
Account
Support
News
My Account
Create Account
Login
Lost Password?
Search
Search
Account Created
Your account, LizzyKao, has been created. Directions for activating your account have been sent to your e-mail address: lizzykao@gmail.com. To complete registration, please follow the directions you receive within 48 hours.
You should receive the confirmation e-mail within a few minutes. Please make certain that your spam filtering allows messages from support@dyndns.com to be delivered. If you have not received this e-mail within an hour or so, request a password reset. Following the instructions in the password reset e-mail will also confirm your new account.
Thanks for using DynDNS!

Also, DynDNS will create a new account for you and send you an e-mail to the address you provided. It needs to confirm your account within 48 hours after receiving the e-mail or it will automatically delete your account.

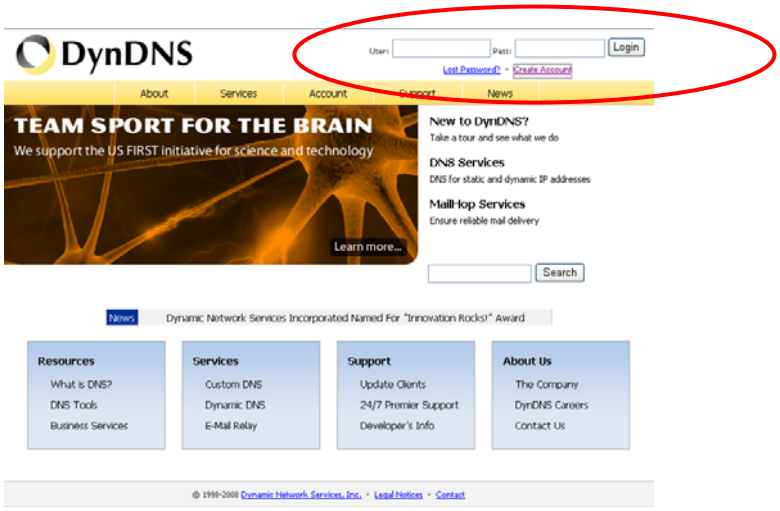
Your DynDNS Account Information
檔案(F) 編輯(E) 檢視(V) 工具(T) 郵件(M) 說明(H)
回覆 全部回覆 轉寄 列印 刪除 上一個 下一個 通訊錄
寄件者: DynDNS Support
日期: 2007年11月30日 上午 08:56
收件者:
主旨: Your DynDNS Account Information
Your DynDNS Account " DVR " has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:
https://www.dyndns.com/account/confirm/qMAlozR5sLqNIAyeTCfdAA
Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.
If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.
Sincerely,
The DynDNS Team

Just click the first link to confirm the account


DynDNS
User:
Pass:
Login
Lost Password? - Create Account
About
Services
Account
Support
News
My Account
Create Account
Login
Lost Password?
Search
Search
Account Confirmed
The account LizzyKao has been confirmed. You can now login and start using your account.
Be informed of new services, changes to services, and important system maintenance/status notifications by subscribing to our mailing lists. Once there, you may susbscribe to the Announce list by checking the appropriate box and clicking the "Save Settings" button.
Create a dynamic DNS host with your own domain name
Create a dynamic DNS host within our domains
Use our MailHop mail services
Register a domain name

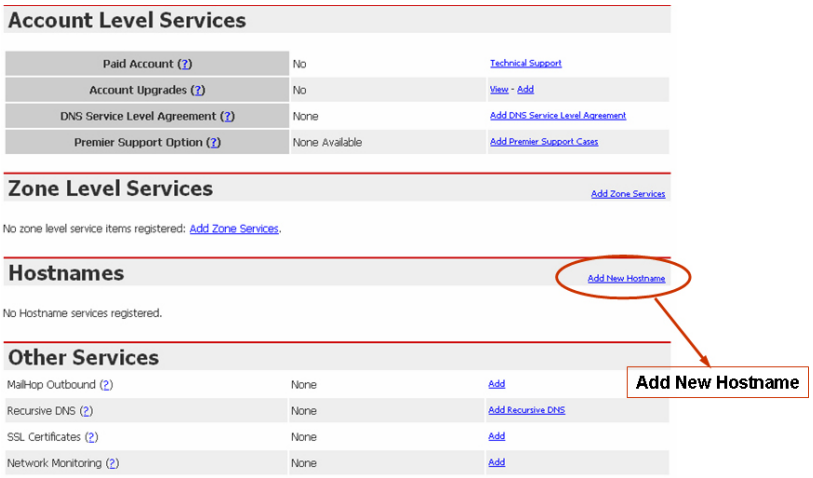
5.5 Login and Host Service

Login to DynDNS by entering your registered username and password. You have to register to acquire username and password.



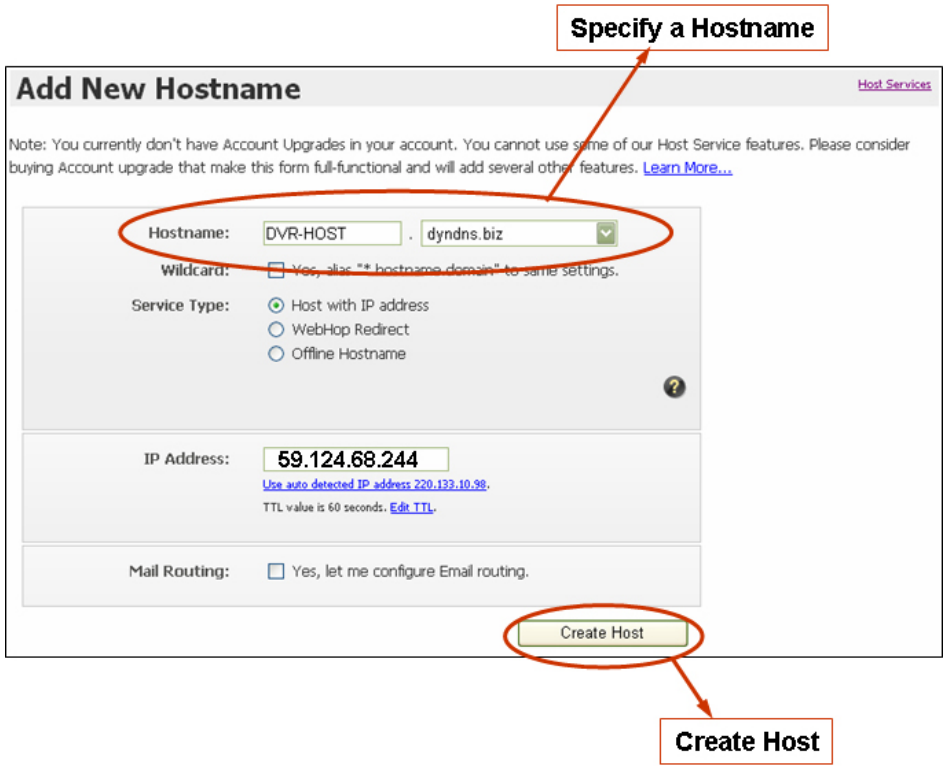
Then, go to "**My Service**" to get a host name

Double click **"Add New Hostname**" as following:



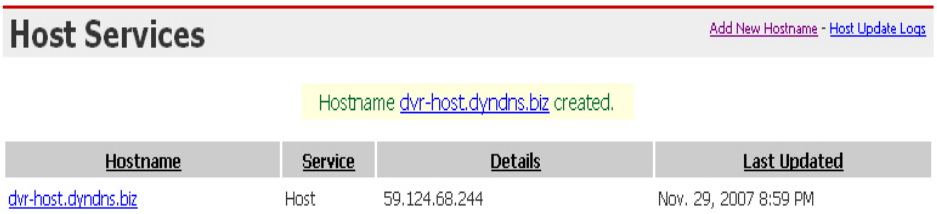
Specify the Hostname for DYNDNS IP which will be applied to the DVR's DYNDNS setting.

We take DVR-HOST.dyndns.biz as an example, and click "Create Host"


Specify a Hostname
Add New Hostname
Host Services
Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. Learn More...
Hostname:
DVR-HOST
dyndns.biz
Wildcard:
Service Type:
Host with IP address
WebHop Redirect
Offline Hostname
IP Address:
59.124.68.244
Use auto detected IP address 220.133.10.98.
TTL value is 60 seconds. Edit TTL.
Mail Routing:
Yes, let me configure Email routing.
Create Host
Create Host

Now, the DYNDNS service is completed.

Well keep the User name, Password and Hostname



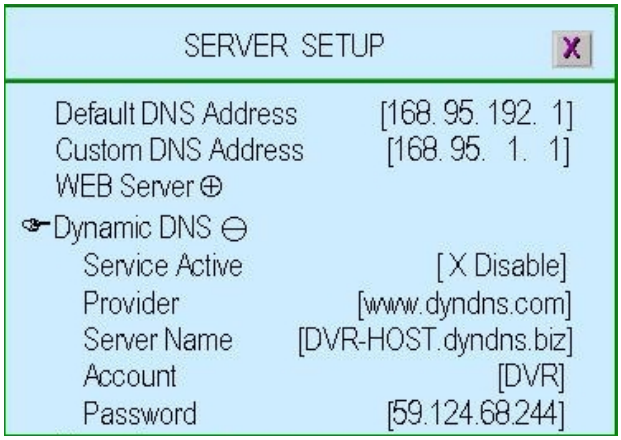
5.6 Setup Router

Most of the setting of router is identical, here is the suggestion:

- Specify DYNDNS service provider: DnyDNS.org (dynamic)
- Specify DYNDNS IP by DYNDNS account (user name / password)
- Specify DVR IP as private IP setting
- Specify one pair of connection port (control port / streaming port) , like”8841”

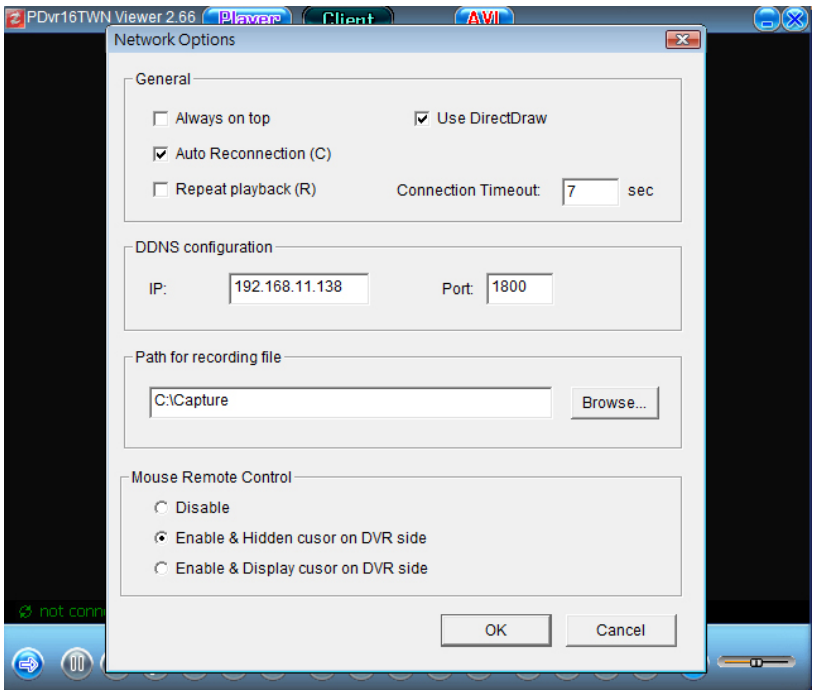
5.7 Setup DynDNS Setting on Encore ENXDVR-4C Surveillance DVR

After completing the DYNDNS account application, go to DVR server setup menu and input the DYNDNS information for network connection.



5.8 Set PC Client Setting

Enter the “Option” at PC Client to setup Network Options-DYNDNS configuration.



Chapter

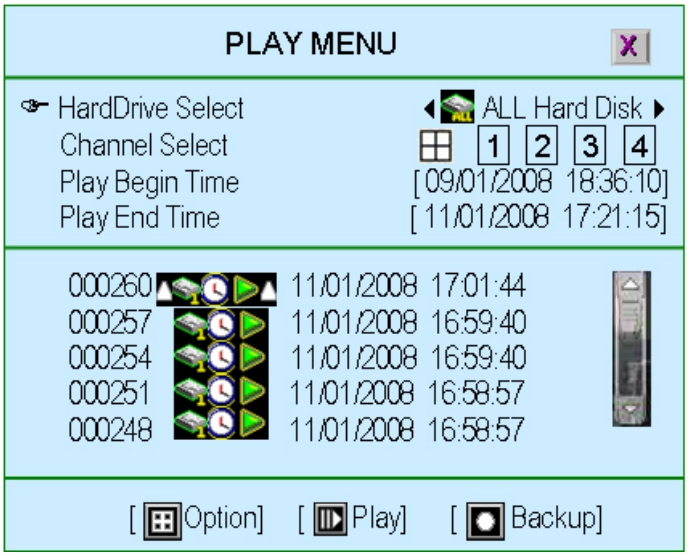
6

PC Client and PC Viewer

6.1 Main Menu

6.1.1 Playback

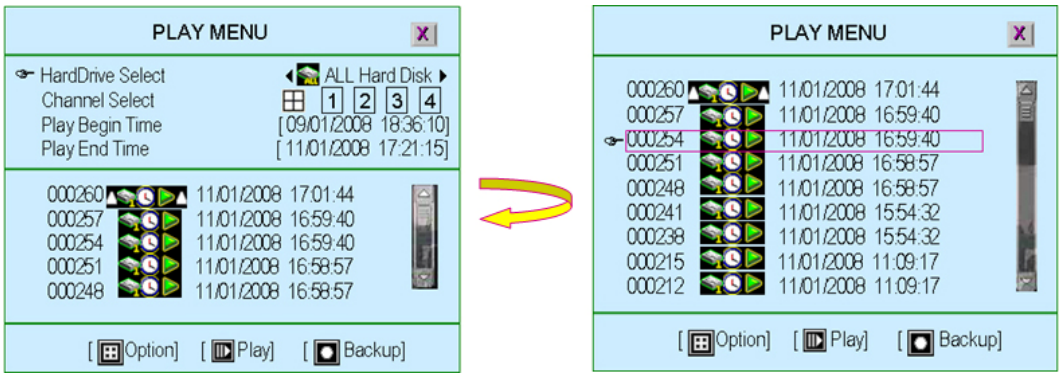
Press "▶" (or "**II**▶") button or icon to enter Play menu in the live view window.



- **Hard Drive Select:** show the hard drive information
- **Channel Select:** select the channel to playback
- **Play Begin Time:** specify the beginning of the playback
- **Play End Time:** specify the end time of the playback

The information below it shows the available recorded events.

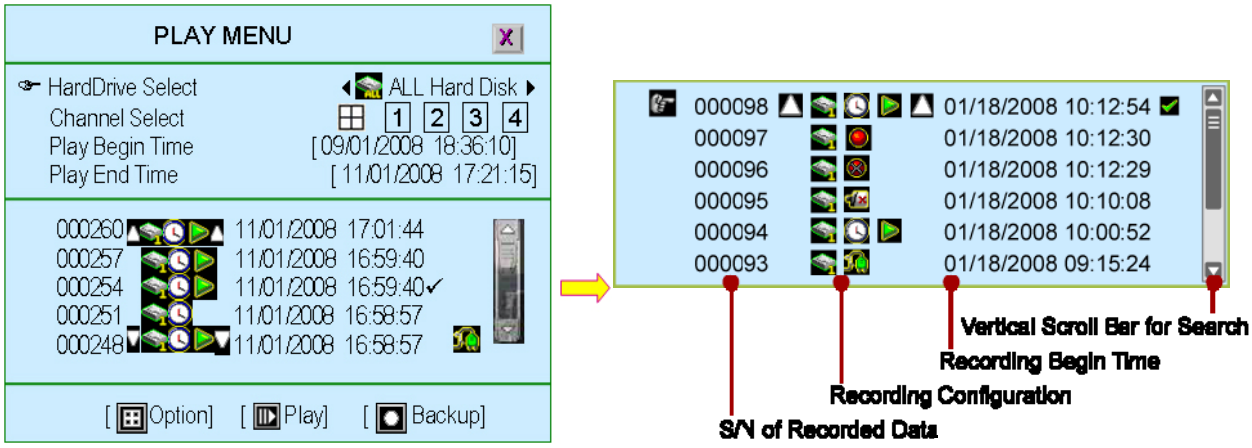
Option: Window switching as follows



Play: Start playing the recorded data. After the data has been played, it will show "✓"

Backup: To backup the recorded data. Please refer to the "Backup" section

Commands and Recorded Data status:

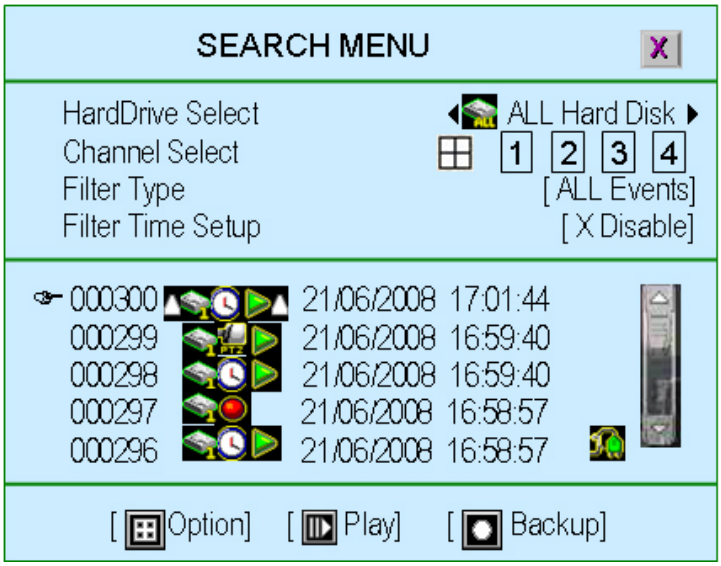


- **S/N of Recorded Data:** Series Number of recorded data provide by system
- **Recording Configuration**
  - o / : Scrolls up/down one page of recorded data in the list window.
  - o : indicates the hard drive the data is stored in.
  - o : shows the recording mode
  - o : the data can be played. (Doesn't show if no video recording is available)
- **Recording Time:** The date / time of recorded data.
- **Status**
  - o ✓ **:** The recorded video data has been played.
  - o : Power ON/OFF event occur.

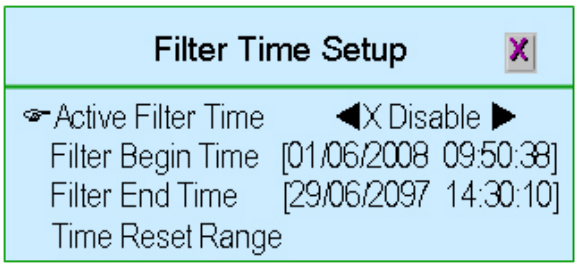
- **Searching:** A vertical scroll bar to search recorded data by mouse for more convenient.

6.1.2 Event Search

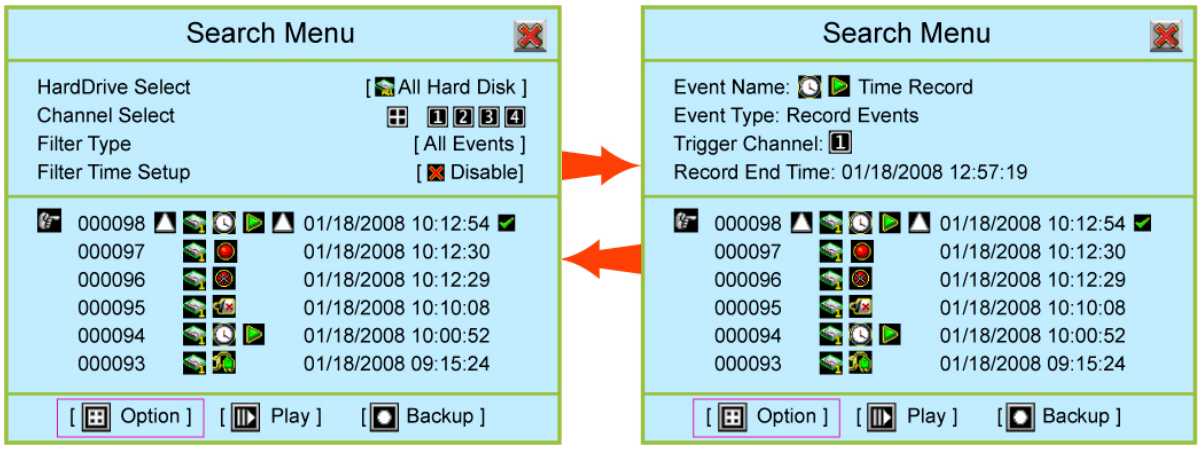
Press "↟" (or "▲") button or icon to enter Event Search Menu



- **Hard Drive Select:** show the hard drive status
- **Channel Select:** specify the channels to search
- **Filter Type:** filter by event type "General Event", "Record Event", Triggered Event", "Hardware Event", "Warning Event", and "All Events"
- **Filter Time Setup**:



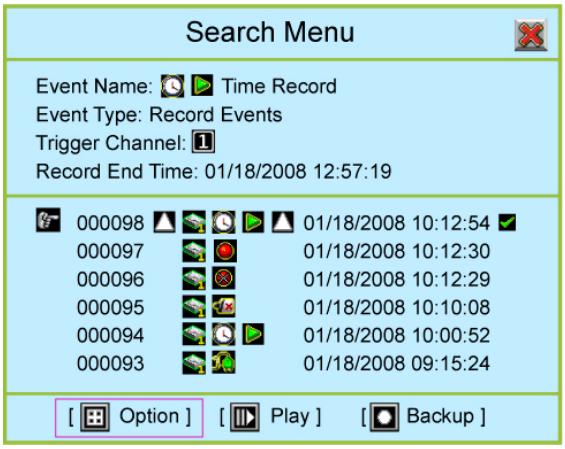
- **Active Filter Time:** Enable/Disable filter time of event
- **Filter Begin Time:** To specify the beginning time of event filter
- **Filter End Time:** To specify the end time of event filter
- **Time Reset Range:** To reset the event search time period according to all effective events as recorded



Option: The top frame of search menu switching to event content display

Play: Start to play the event which has been selected

Backup: Backup the event which has been selected



- **Event Name:** show the name of the selected event
- **Event Type:** show the event type
- **Triggered Channel:** show the triggered channel
- **Record End Time:** shows the recording end time.

6.2 PC Player

The PC player is for viewing recorded video, taking snapshots and converting video to AVI format on PCs that support Windows 2000/XP/Vista/Windows7.

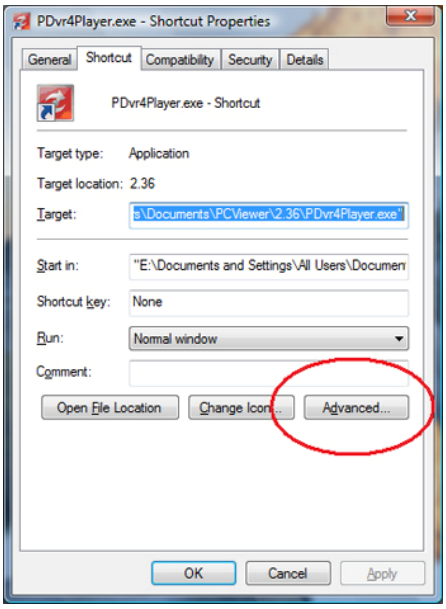
6.2.1 Installation

The PC Player software under the PC Viewer Utility Software help you play videos on to your PC under the Windows Environment, please refer to the CD. If you have not done so, click to install the “PC Viewer Utility Software” icon (see picture below) to install the program and follow the on-screen instructions.

At the PDr4TLG Viewer screen, click on the “Player” tab to access the “PC Player” screen.

Windows Vista® requires administrator user rights to run the installations. Follow the directions below for setting up the PC player in Windows Vista.

- Find the PDvr4TLG shortcut either on your desktop or folder in your local hard disk drive then use the right button of your mouse to click it. Go to PC Player Properties setting, select the Shortcut tab then choose **"Advanced"**.

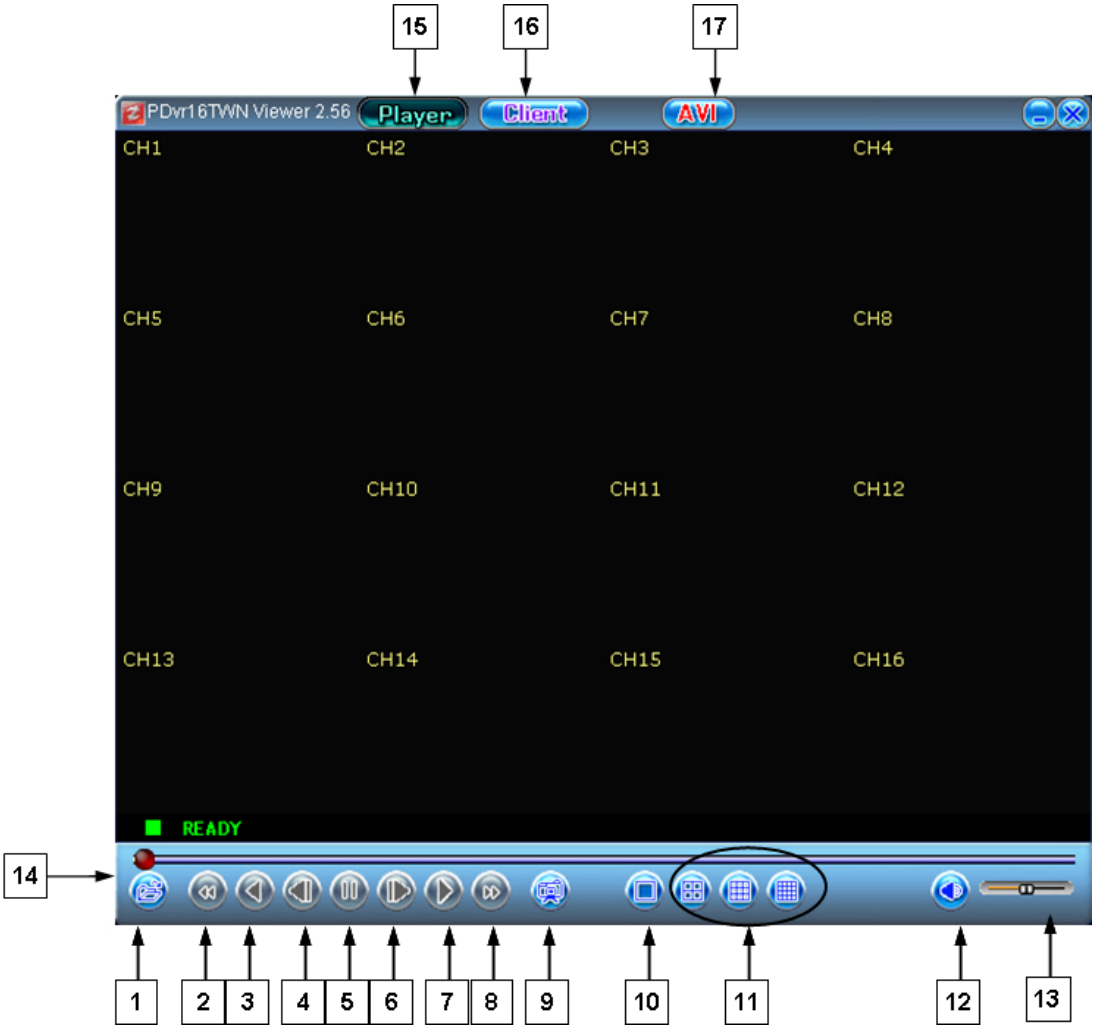


- Enable **"Run as administrator"**; then, press OK to complete PC player properties setting.

Advanced Properties
Choose the advanced properties you want for this shortcut.
Run as administrator
This option allows you to run this shortcut as an administrator, while protecting your computer from unauthorized activity.
Run in separate memory space
OK
Cancel

6.2.2 Overview

Press or click the “Player” tab to see screens.

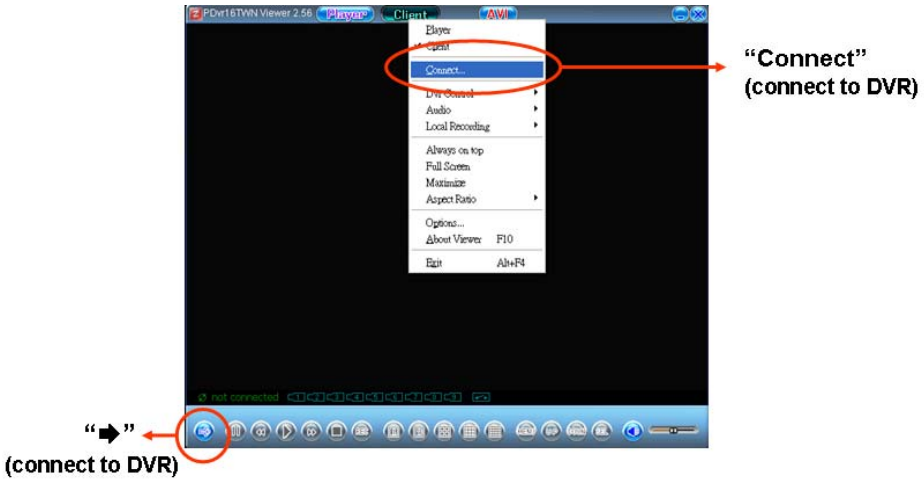


No	Name	Function
1	Open	Open file. To retrieve the desired video data.
2	◀◀ Fast Backward	Press to play backward faster.
3	◀ Reverse	Press to playback backward
4	◀ I Previous frame	Button for one single frame backward
5	I I Pause	Pause the video playback
6	I ▶ Next Frame	Button for advancing one single frame

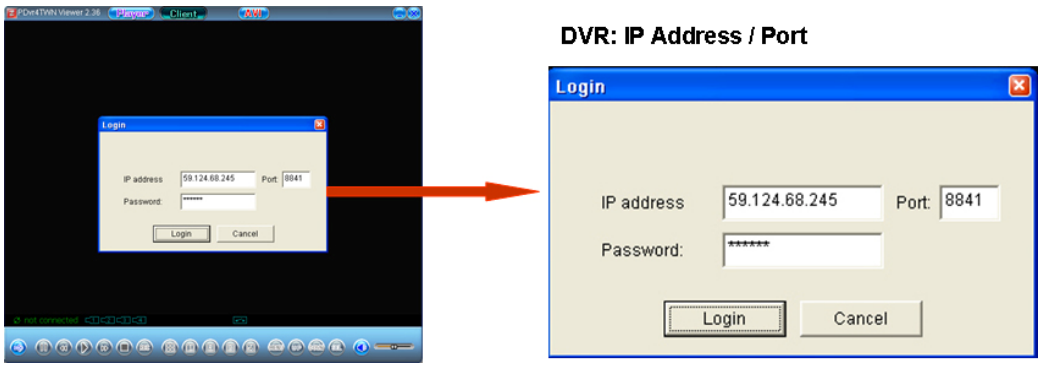
No	Name	Function
7	▶ Playback	Start video playback
8	⏩ Fast forward	Press to play the recorded stream faster.
9	Still capture	click to snapshot the data as BMP file
10	■ Mode (Full)	To display each channel on full-screen
11	⊞/⊞	To display 4/8channels on screen
12	Speaker	Set Speaker On / OFF.
13	Speaker Volume	To adjust the speaker's volume
14	Video	Video Play.
15	Player	Press to act at PC Viewer environment
16	Client	Press to act at PC Client environment
17	AVI	Click to create a new file to save AVI file in PC and start to convert the data into AVI file and save.

6.2.3 Connect PC Client to DVR

Press the "Client" tab, then press the "➡" button located in the leftmost bottom corner of the viewer screen.



At the login screen, enter your login information Select "Connect" and click the "Login" button.

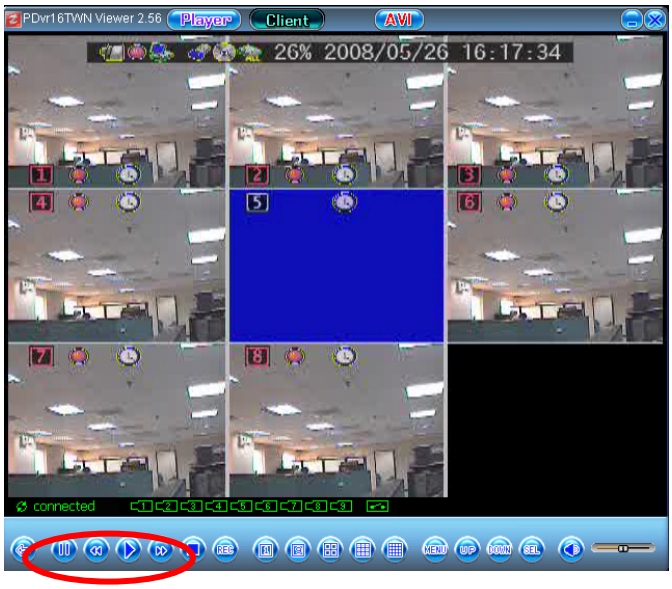


IP Address / Port: Enter the IP address of the ENXDVR-4C, the default IP address is set to automatic or DHCP

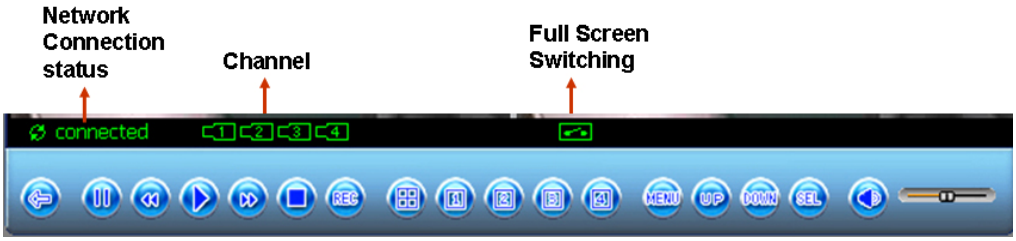
Password: The password is the same password that be used for formatting the DVR Hard Drive. The default is “123456”.

Then press “Login” to connect to ENXDVR-4C Surveillance DVR

“ **connecting”** This means the PC client is trying to connect to DVR. Once the PC and DVR connection is completed, the control bar below will show ”**connected**” on status bar. If connection fails or disconnected, it will show **“not connected”**



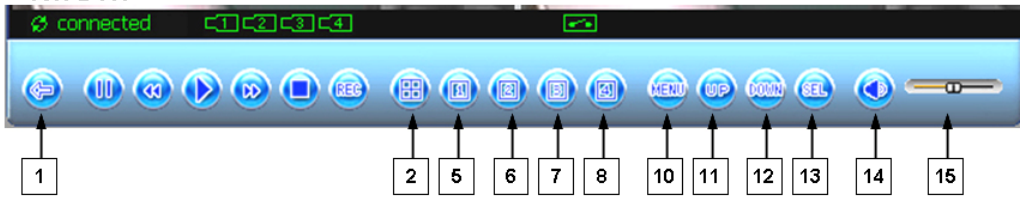
6.2.4 Status information



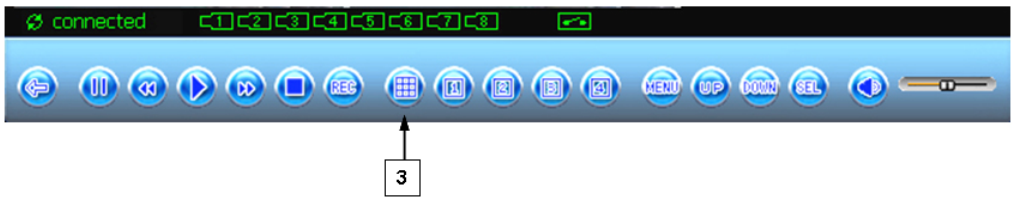
6.2.5 Control Icons

After connected, the DVR can be controlled from the remote site using the control icons.

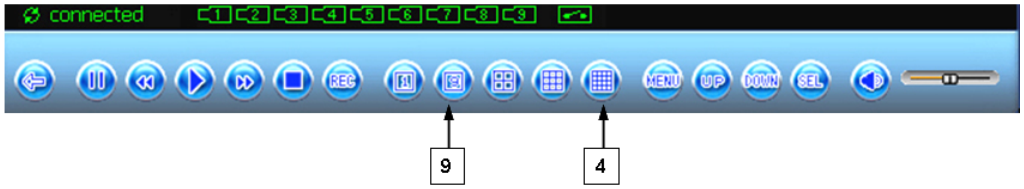
4ch DVR



8ch DVR



16ch DVR

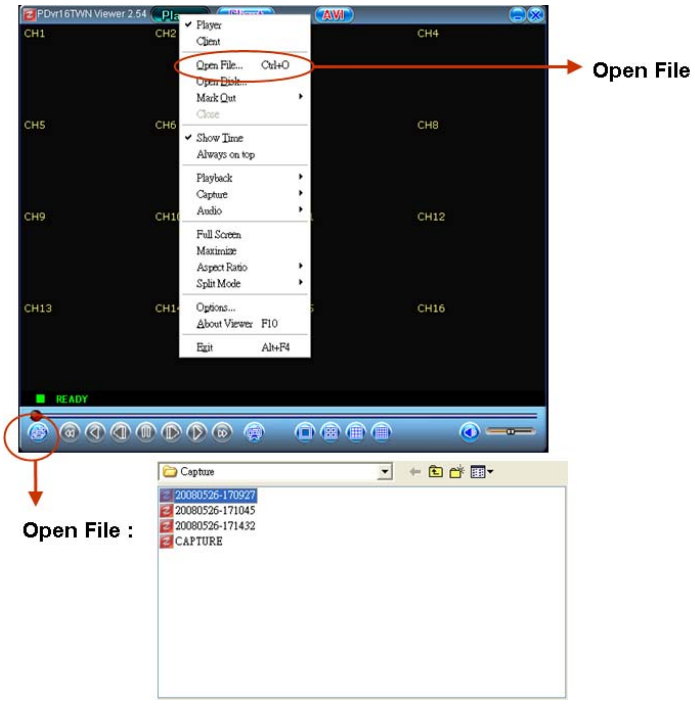


No	Name	Description
1	➡/ ⬅	Connect/Disconnect the network within PC and DVR
2		Channel Mode: To display 4 split screen
3		Channel Mode: To display 9 split screen
5		Channel 1display at full screen (4ch DVR) To display Channel1, channel2….. channel4 by sequencing on

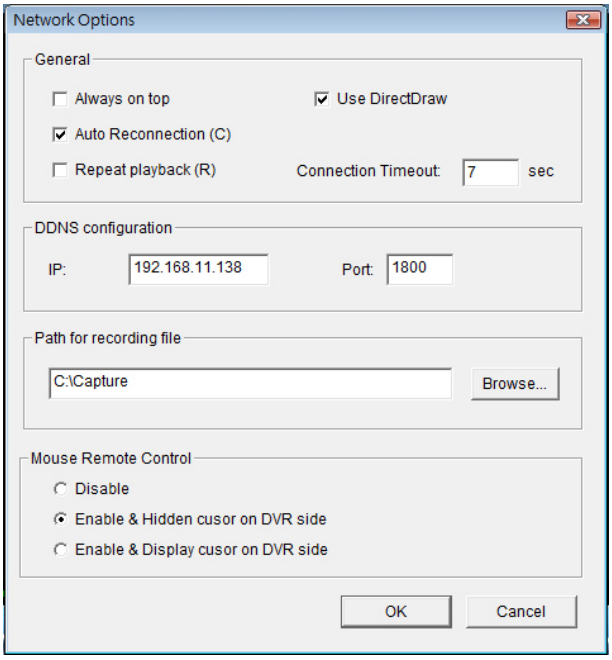
No	Name	Description
		screen (8ch DVR)
6		Channel 2 display at full screen (4ch DVR) To display Channe5, channel6….. channel8 by sequencing on screen (8ch DVR)
7		Channel 3 display at full screen (4ch DVR) 4 split view the Channel1 ~ channel4 (8ch DVR)
8		Channel 4 display at full screen (4ch DVR) 4 split view the Channel5 ~ channel8 (8ch DVR)
10	MENU	Enter menu or exit
11	UP	Moves up through the list of menus or enter Search Manu
12	DOWN	Moves down through the list of menus or starting auto rotation
13	SELECT	Use this button to change or confirm values on main menu or sub menu setting.
14	Mute On/Off	Set Speaker On / OFF.
15	Volume	To adjust the speaker’s volume

6.2.6 Opening a previously recorded video file for Playback

You can playback the recorded video file by using “Open File” function in two ways as following.



The default path of local recording is C:\Capture, this is where all the recorded video files are saved unless the location was changed. Or you can change the path under hierarchical menu: “Option”

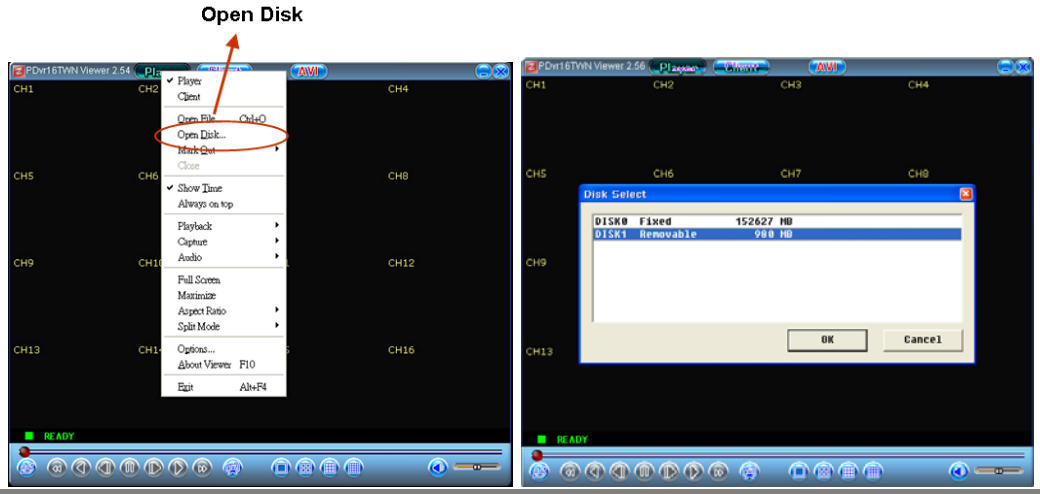


Mouse Remote Control: To enable/discard the mouse operating on DVR when you use mouse operation at Client site.

6.2.7 Open Disk for Playback

Plug the USB memory stick with data backup into PC.

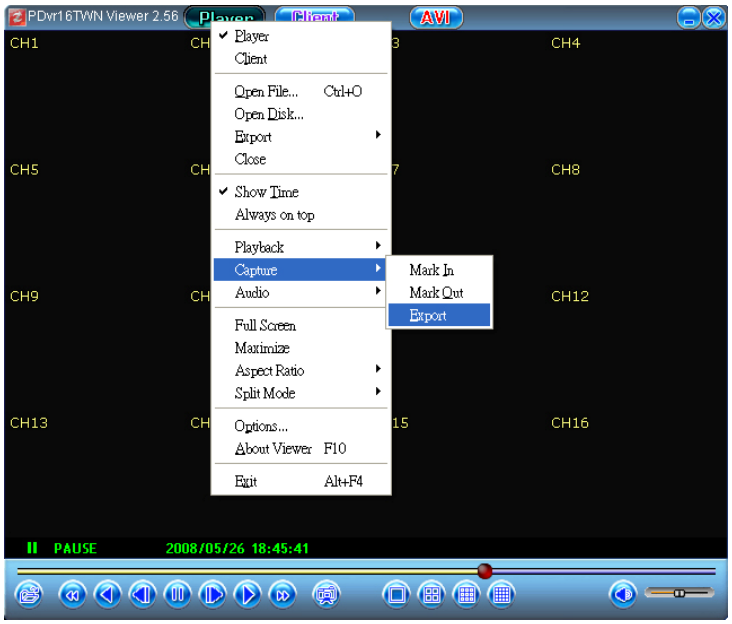
Press the right button of mouse to the “Player” tab, and then select “Open Disk”. Select the video file then, press “OK” to start playback the data in USB removable flash drive.



6.2.8 Capture

When you want to capture a selected recorded video file, use the “Capture” function.

First, select the video file you desired by using “Open File” then it will play automatically. Press “**I I** Pause” before using “Capture”. Use your mouse to select the starting point, then press the ”Mark In” button. Use your mouse again to select the end point, then press ”Mark Out” Then go back to the drop down menu and select “Export”.

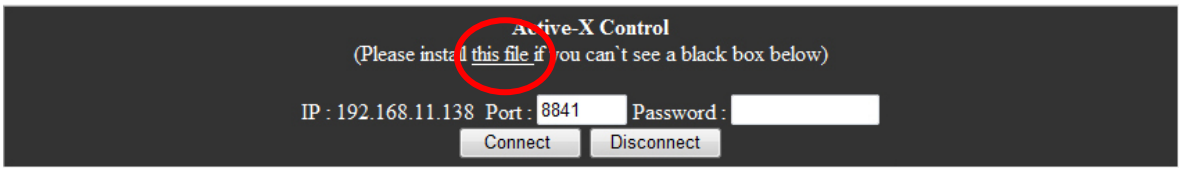


6.3 Web Browser Viewer

You can remote control the DVR unit through IE Browser

Before starting to IE Browser, please make sure Active-X is installed. ActiveX can also be installed from the web site or directly from the DVR through the webpage.

Or bring up your internet browser such as the Internet Explorer then type-in the DVR IP address to URL field bar (you may refer to section 7.3.6 IP Address Setup for more information). Then press "this file" located on the top section of the screen (see picture below) to download the Utility software bundled with the Active-X from DVR.

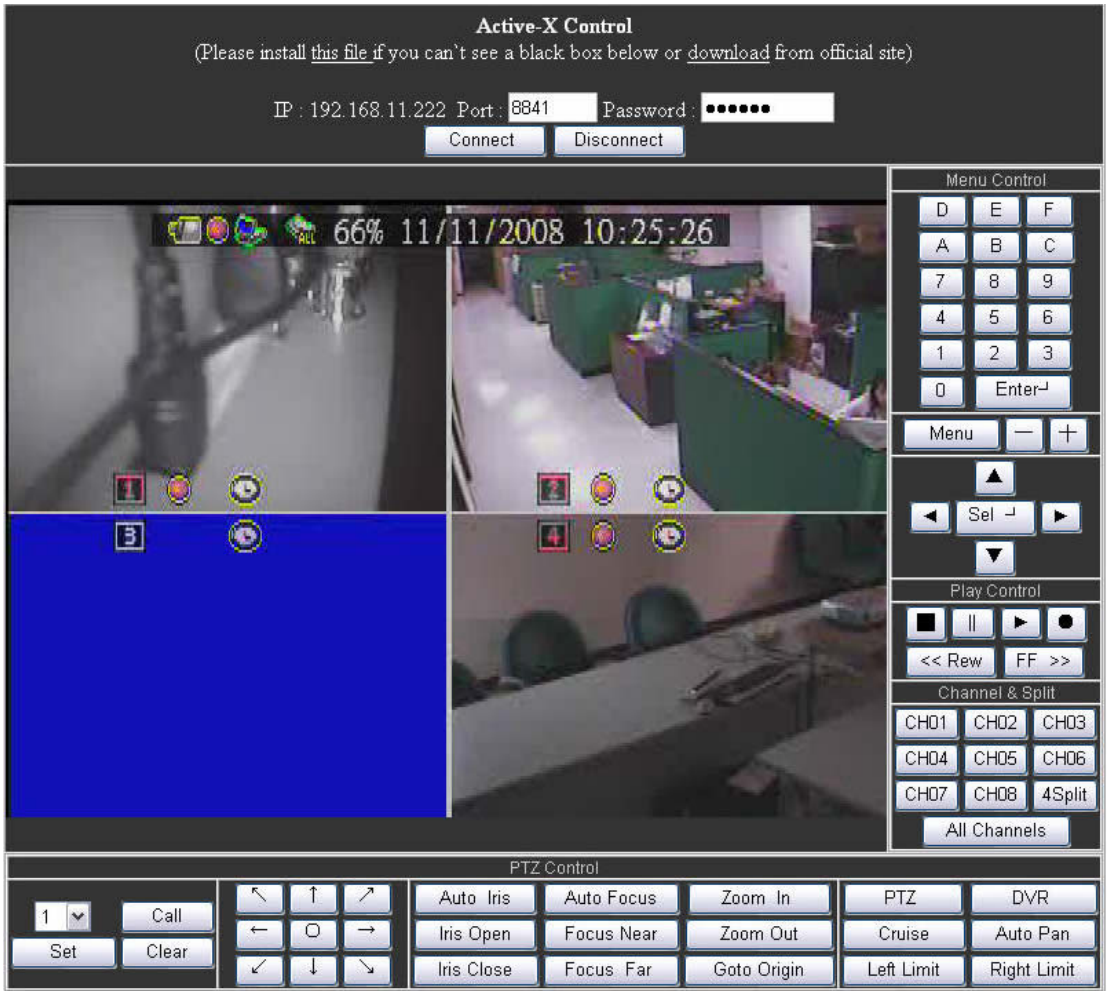

Active-X Control
(Please install this file if you can't see a black box below)
IP : 192.168.11.138 Port : 8841 Password :
Connect
Disconnect

The following is an example in connecting to the DVR using the web browser, Internet Explorer. Make sure you have done all the wirings most especially the LAN cable to you LAN:

- In your Web Browser's URL field enter the DVR IP address: <example 192.168.11.138>
- Enter the "Port: 8841", and "Password: xxxxxx" (123456 is the default password)
- Then, click "Connect"

You may get some screen messages, just follow screen instructions if it happens.

All the settings and the operations can be done using your mouse and buttons,



6.3.1 Menu Control

Name	Function
0,1,2,----9,A,B,…F	Numbers (0,1,2~9) and characters (A,B,…,F) for inputs
ENTER	Input Confirm / change values on main /sub menu setting.
MENU	Enter menu or exit.
+	Moves right / Channel change
-	Moves left / Channel change

Name	Function
▲ (UP) ▼ (DOWN) ◀ (LEFT) ► (RIGHT)	Moves up/down/left/right through the list of menus. Or use it to select / change the DVR configuration values.
Select	Use this button to change or confirm values on main menu or sub menu setting

6.3.2 Channel & Split

Name	Function
CH01, CH02 ..CH08	Channel Number (Channel 1 ~ 8)
4 Split	4 split view on the screen
9 Split	9 split view on the screen
All Channels	Display all channel 4/8 on the screen

6.3.3 Play Control

Name	Function
<< REW	Backward search through a time-shifted or recorded video.
■ STOP	Stop playback or backup.
II PAUSE	Pause recording or playback.
► PLAY	Start video playback.
● REC	Start or stop recording/backup.
FF >>	Forward search through a time-shifted or recorded video.

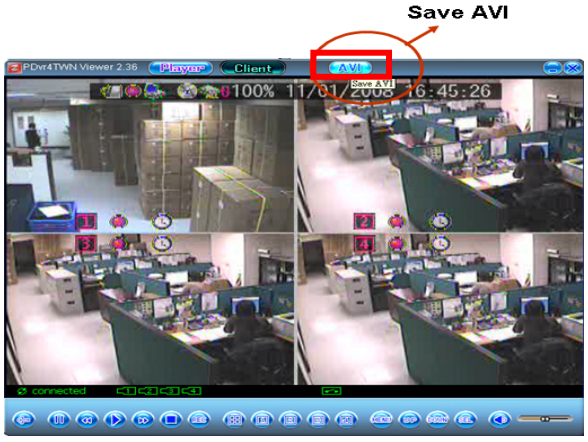
6.4 Capturing Videos

Before doing the PC Capturing, please make sure K-Lite Codec Pack has already installed. You can refer to http://www.free-codecs.com/download/K_Lite_Codec_Pack.htm

Or Insert the ENXDVR-4C Setup Disc and click on

icon as seen in the Main Menu screen below. Make sure you have internet connection because this icon will bring you to the K-Lite web site where you can download the codec to run AVI and other videos.

Press “AVI” on the top to capture video that is synchronous with DVR and save as a file on PC.

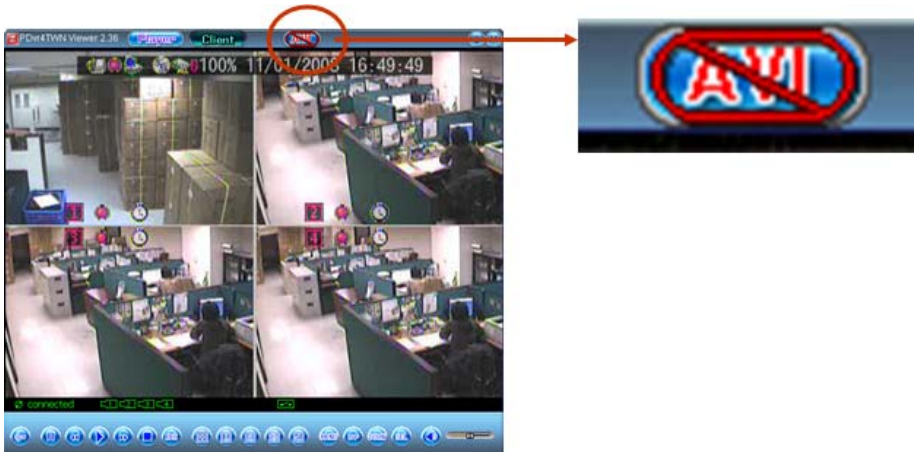


Before PC starting to capture video from DVR, it asks will it lower down the internet speed.

Also, you can setup the directory for file saving.

Then, start to capture the video from DVR synchronously.

When the video capture processing, the icon “AVI” will change as following:



Press “AVI” again for stop/completing the video capture and save file. And icon “AVI” will back to normal.

Chapter

7

Secuviewer

7.1 Setup

You can remote view the ENXDVR-4C Surveillance DVR unit through 3G application software. Be sure that the following conditions are met before starting:

- Move your mouse arrow to

icon from the Setup Disc Main Menu then select from child popup menu

for your 3G phone – generic or BlackBerry. Once download is complete, extract files to your PC. Make sure you know where to locate the extracted files on your PC hard disk drive.
    - Note: If you get an error reading the file message, this means you have no Zip file extractor software on your PC. You can download a Zip file extractor from the internet.
      Example: www.winzip.com
- Double click on the Secuviewer to extract the file, this will create a new folder with new files inside the folder
- Connect your 3G cell phone to your PC according to your cell phone's instructions and the cell phone provided cable to PC's USB port.
- Using the files you just extracted to your PC, you may now install the application software on your 3G mobile phone. It supports Java MIDP version 2.0 and above. Check your 3G cell phone's instruction on how to install application software such as SecuViewer Utility Software from PC.

After SecuViewer is well setup, it will show the picture on mobile phone as in the below image:

7.2 Connecting to ENXDVR-4C Surveillance DVR

Press “DVR Connect” to start connecting your cell phone to the ENXDVR-4C Surveillance DVR.

WARNING Using this service requires a 3G data connection on your phone or device. Data charges may apply. Check with your service provider before using the Secuviewer.

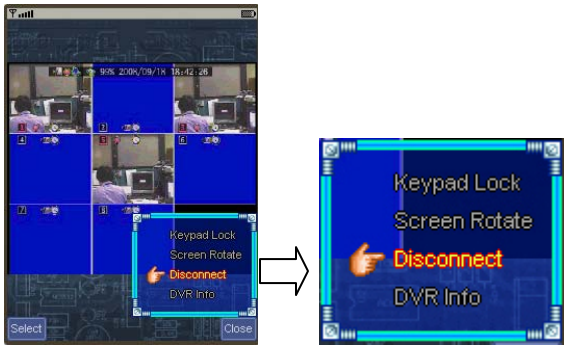
NOTE Some models of mobile phone will show a warning “Allow application to send to the Internet? “ Please enter “YES”.

Once connected, the DVR operating screen will show up for the remote view.

Mobile phone keypad usage:

- ↑,2 - Up
- ↓,8 - Down
- ←,4 - Left
- →,6 - Right
- Enter and 5 - Confirm
- 0 - Cancel

[**System**] : Setup Keypad lock/unlock, Screen rotate, Disconnect and DVR info



Keypad Lock / Unlock the operating keys on mobile phone.

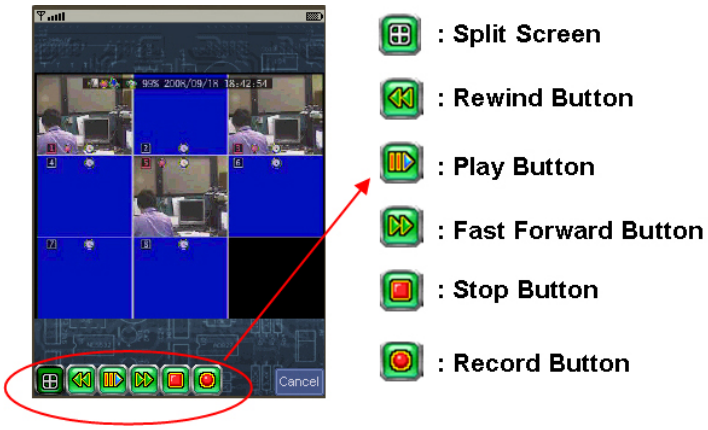
When the keypad is locked, it shows the icon: .

Screen Rotate: Rotate the canvas 90deg clockwise for a larger viewing size. Or use hotkey "#" to rotate screen

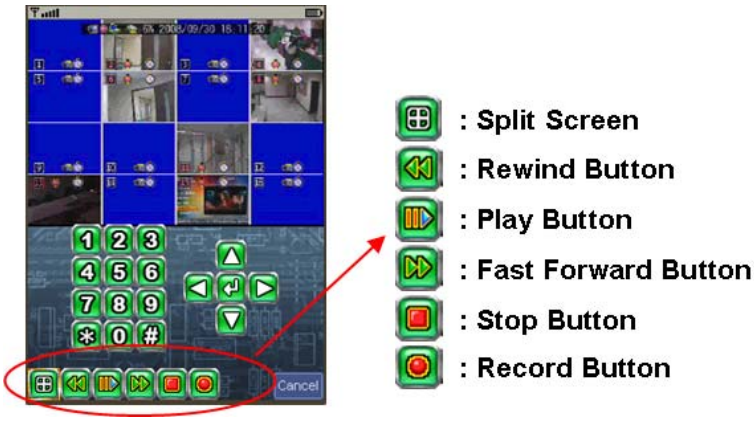
Disconnect: To disconnect the mobile phone and DVR.

DVR Info: DVR information includes DVR model, Firmware version, video type.

[**Key**] - The mobile is operated by keypad, there are buttons for DVR remote control



[**Key**]- The mobile is operated by stylus, there are buttons for DVR remote control



Operating keys:

Number 0 - 9 : can be the number only or channel selection

[*]: Main menu

As connect to 4CH DVR :
1-4 => Switch Channel
0 => Quad Screen

As connect to 8CH DVR :
1-8 => Switch Channel
0 => 9-Split Screen
41 => 4-Split Screen 1
42 => 4-Split Screen 2
99 => 9-Split Screen

7.3 Login Setup

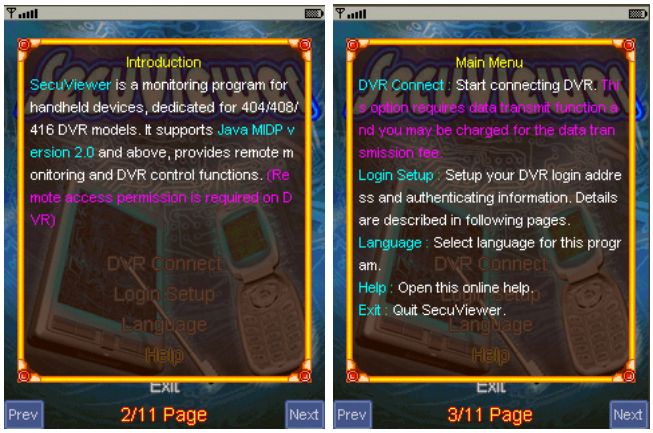
To login to the ENXDVR-4C Surveillance DVR, use the same procedure when logging-in on a regular PC network connection and password (123456 default password for default user “admin”.

7.4 Language

Select the language of the software.

7.5 Help

Provide online help and descript how to operate SecuViewer.


Introduction
SecuViewer is a monitoring program for handheld devices, dedicated for 404/408/416 DVR models. It supports Java MIDP version 2.0 and above, provides remote monitoring and DVR control functions. (Remote access permission is required on DVR)
DVR Connect
Login Setup
Language
Help
Exit
Prev
2/11 Page
Next
Main Menu
DVR Connect : Start connecting DVR. This option requires data transmit function and you may be charged for the data transmission fee.
Login Setup : Setup your DVR login address and authenticating information. Details are described in following pages.
Language : Select language for this program.
Help : Open this online help.
Exit : Quit SecuViewer.
DVR Connect
Login Setup
Language
Help
Exit
Prev
3/11 Page
Next

7.6 Exit

Press “Exit” to leave the SecuViewer application.